

From the President,

The ideal public college fulfills its mission by educating citizens of all ages and socioeconomic backgrounds. Missouri Southern State College is proud of the role it plays in the intellectual and personal growth of its diverse



student body. Our students discover here one of the finest values in higher education anywhere, with quality academic programs, small classes, excellent and accessible professors, and reasonable cost.

Our curriculum combines a liberal arts foundation with innovative professional directions to enable our students to become more concerned and capable citizens of the nation and the world.

Julio S. Leon, President

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Dear Student,

If you're entering college for the first time, or even coming back after several years' absence, there is information in this catalog you'll need. It's not the most exciting bedtime reading, but it does pack a lot of information about our academic programs throughout your college experience.

This catalog and our helpful staff also can answer your more immediate questions:

1. I haven't decided on a major yet. What do I do?

Southern has trained counselors to help you discover what your best interests and attributes might be. Visit with Dr. Earle Doman, Hearnes Hall 112, 625-9595. (Counseling Services, page 23)

2. I'm concerned about the transition from high school to college. Is there someone to help?

The Counseling Services can help here too, as well as your College Orientation class. See Dr. Doman or Mrs. Lori LeBahn, Student Center 212, 625-9542. (Orientation, page 18)

3. Do you have an Honors Program?

Southern has an excellent and challenging Honors Program which includes a summer study option at Oxford University in England. Talk to Dr. Lanny Ackiss or Mrs. Patricia Kluthe, Webster Hall 137, 625-9686. (Honors Program, page 29)

4. Can I get some financial help with college costs?

A full range of financial aid programs are available to qualified students. Mr. Jim Gilbert and his staff can provide you with information and applications in Hearnes Hall 114, 625-9325. (Financial Aid, page 18)

5. What activities and organizations are available?

A host of special events, student activities and departmental organizations are available throughout the year. Drop by Val Carlisle's office, Student Center 101, 625-9320. (Student Activities, page 24. See also individual departments.)



Our Mission

Missouri Southern State College is a state-supported, comprehensive college offering programs leading to the bachelor's degree. Faithful to its original statutory charter, the College also offers continuing education courses and a number of two-year programs in technical and vocational areas for the benefit of the community.

The College's primary emphasis is the offering of a baccalaureate program that fosters the total education of each student. Central to that mission is a strong commitment to international education, to the liberal arts, to professional and preprofessional programs, and to the complementary relationship that must exist between liberal and professional education in order to prepare individuals for success in careers and lifelong learning.

Inherent in its international approach to undergraduate education is the College's desire to prepare its students to understand world affairs, international issues and other cultures as seen through their history, geography, language, literature, philosophy, economics and politics. Knowledge and understanding of other cultures of the world also promote better understanding of our own valuable cultural diversity.

Missouri Southern's commitment to the liberal arts is reflected in a comprehensive program of general education requirements for all students to ensure that they have a breadth of educational experiences which will enable them to develop communication and critical thinking skills and to acquire and apply aesthetic, contemporary, civic, international, historical, mathematical, scientific and value-oriented perspectives.

The faculty and staff of Missouri Southern State College emphasize quality teaching and learning as the most important attributes of the College, complemented by scholarly and creative expression and dedicated community service. Community service involves responsiveness to the Southwest Missouri region as well as serving as the intellectual, creative and cultural center of the area.

In order to remain loyal to the trust given to the College by the people of the State of Missouri, Missouri Southern State College will:

- periodically review its mission in light of contemporary changes in society and in the needs of the people of Missouri;
- · continually assess the effectiveness of its programs in order to ensure their quality and integrity.



International Education

On June 15, 1990 the Board of Regents of Missouri Southern State College approved a recommendation to pursue an international approach to undergraduate education.

The move to an international approach to our educational mission is prompted by the realization that the successful citizens of the 1990s and the 21st century will have to possess better knowledge and awareness of the people, languages and cultures of other countries of the world. The dramatic changes that are taking place in the economic and political systems of Russia and Eastern European countries as well as the challenge by Asian and European countries to American economic leadership make self-evident the need for a college education with a strong global perspective.

Missouri Southern State College is phasing in over several years, different programs and activities designed to internationalize our college. Among these are included:

- Revising the curriculum to include a global perspective in every possible course.
- Expanding the teaching of foreign languages to include, among others, Russian, Chinese, Arabic, Italian, Japanese, etc.; in addition to German, French and Spanish.
- Increasing opportunities for Missouri Southern students to study abroad.
- Staging conferences and lectures on world affairs, as well as cultural and artistic programs with international performers.
- Creating new courses in international studies.
- Increasing the participation of international students.

As these programs are implemented, our present and future students should take advantage of them and prepare for the global environment of the future.

Core Curriculum

"The task of education is to ensure both a celebration of the individual and an understanding of the interdependence of the individual within the larger community."

Bok

The Baccalaureate Degree

Scholars cite the following as the most common aims of a baccalaureate degree:

- Undergraduates should acquire an ample store of knowledge, both in depth, by concentrating in a particular field, and in breadth, by devoting attention to several different disciplines.
- They should gain an ability to communicate with precision and style, a basic competence in quantitative skills and a capacity to think clearly and critically.
- Students should also become acquainted with the important methods of inquiry and thought by which we acquire knowledge and understanding of nature, society and ourselves.
- They should develop an awareness of other cultures with their differing values, traditions and institutions.
- By having the chance to explore many opportunities, they should acquire lasting intellectual and cultural interests, gain in selfknowledge and ultimately be able to make sound choices about their future lives and careers.
- Through working and living with a wide variety of fellow students, they should achieve greater social maturity and acquire a tolerance of human diversity.

These common human experiences which transcend culture and time should be the components of an undergraduate degree. The faculty of Missouri Southern has translated the above into the following goals for its **Core Curriculum**:

Communicating: The student can send and receive information in a variety of modes (written, graphic, oral, numeric and symbolic), within a variety of settings (one-to-one, in small and large groups), and for a variety of purposes (for example, to inform, to understand, to persuade and to analyze).

Solving Problems/Critical Thinking: The student can analyze a variety of problems (for example, scientific, social, personal), select or create solutions to problems and implement solutions.

Clarifying Values: The student can identify personal values and the

personal values of other individuals, understand how personal values develop and analyze the implications of decisions made on the basis of personally held values.

Functioning Within Social Institutions: The student can identify those activities and institutions which constitute the social aspects of a culture (for example, governmental and economic systems, religion, marital and family institutions, employment and civic volunteer and recreational organizations), understand the impact that social institutions have on individuals in a culture; and the student's own and others' personal functioning within social institutions.

Understanding Science and Technology: The student can identify those activities and products which constitute the scientific/technological aspects of a culture (for example, transportation, housing, energy, processed food, clothing, health maintenance, entertainment and recreation, mood-alteration, national defense, communication and data processing), understand the impact of such activities and products on the individuals and the physical environment in a culture and analyze the uses of technological products in a culture and the student's personal use of such products.

Understanding the Arts: The student can identify those activities and products which constitute the artistic aspects of a culture (for example, graphics, art, music, theatre, literature, dance, sculpture, film and architecture); understand the impact art, in its various forms, has on individuals in a culture; and analyze the uses of works of art within a culture and the student's personal use of art.

The curriculum at Missouri Southern is designed in such a manner that these human experiences permeate each class taught at the institution. The graphic illustrates the cohesiveness of the student experience.

The **Core Curriculum** is the base of the graphic. Selected courses are designed to emphasize one or more of the goals described above. All baccalaureate degree candidates are required to gain minimum competency in these experiences. (See Core Curriculum, page.)

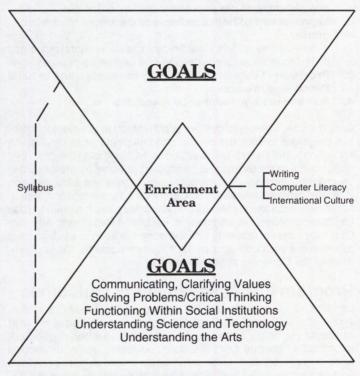
A **Major** or an extended study unit is required of all students. The curriculum is designed to allow limited experimentation in selecting that major. However, if a student wishes to graduate within four years, a major should be selected by the end of the third semester. (See specific majors listed within the narration of the four schools.)

The **Enrichment Area** insures a cohesive, integrated program of study from the freshman to the senior year. The **course syllabus** requires the attention of the Core Curriculum goals in each course taught on campus. The **Writing Program** is designed to insure acceptable composition permeates the total course of study. The **Computer Literacy** requirement rests within the discipline. Students must perform this competency within their major.

International Culture permeates the curriculum. The citizens of the 21st century cannot hope to prosper without a thorough knowledge of the cultures of the world. The thrust of our American Culture component is to insure the preservation of our value system, our democratic ideals and our way of life. The six required courses in the Core Curriculum are testimony to this strong belief. The curriculum is designed to insure competency with this area.

The graphic illustrates a cohesive, integrated curriculum of undergraduate education.

MAJOR AREA OF STUDY



CORE CURRICULUM

"To furnish the means of acquiring knowledge is the greatest benefit that can be conferred upon mankind. It prolongs life itself and enlarges the sphere of existence."

John Quincy Adams

Assessment of Outcomes

Goals of Assessment of Outcomes

Assessment is an on-going, cyclical effort of identifying goals, developing programs to achieve those goals, evaluating the effectiveness of the programs, analyzing the results, redefining the goals and improving the programs. That cycle is a basic responsibility of all faculty and administrators. Stated goals of outcomes assessment at Missouri Southern are:

- Evaluation of institutional effectiveness by research and assessment of:
 - a. Core Curriculum programs and school department
 - b. Academic and developmental student outcomes
- Improvement of both academic and student affairs pro grams:
 - a. To increase student academic and developmental outcomes
 - b. To increase student retention and degree completion
- Provision of data needed for long-range planning to fulfill the college mission
- 4. Fulfillment of governmental mandates

In its mission, Missouri Southern is committed to developing effective programs to fulfill the needs of the students while developing knowledge, skills and positive attitudes. In order to accomplish that goal, on-going assessment is conducted not only by professors in the classes offered each term, but also by faculty and administration in annual program reviews. The Center for Assessment and Institutional Research assists faculty and administration in gathering data for those reviews. In addition, a Faculty Assessment Advisory Committee meets regularly with the administration to study current assessment methods and make recommendations for improvement of the College's assessment program.

Program For Assessment of Outcomes

Importance of assessment for college accountability is underscored by a **Board of Regents Policy which requires that students participate in assessment activities when requested.** Information obtained from standardized tests, faculty developed tests, surveys, student research, portfolio review, student interviews and performances is used to develop both quantitative and qualitative data needed for program review. Three identified areas of student outcomes are assessed each year: Core Curriculum, departmental majors and student development. In addition, follow-up studies of alumni and employers are conducted periodically.

Core Curriculum: Basic to any degree obtained at the College is the Core Curriculum. A Faculty Core Curriculum Oversight Committee is charged with reviewing the Core Curriculum requirements, reviewing student outcomes in this area and making recommendations for program changes if needed.

Data for study is gathered each year by administering a standardized test and needed surveys to incoming freshmen and exiting seniors. The ACT COMP (American College Testing College Outcome Measures Program) is a standardized test used to measure the impact of a Core Curriculum on students as they progress through a degree program. The test is designed to assess skills developed in Missouri Southern's Core Curriculum. Students are called upon to analyze, synthesize, apply and evaluate information, rather than just to recall or recognize content.

Departmental Majors: The faculty and administration of each department are responsible for evaluating the effectiveness of their programs. All departments have developed outcomes assessment programs for graduating seniors. Information gathered from quantitative and qualitative assessment is used by the department to review programs and make recommendations for curricular changes if needed. A variety of assessment methods are used by the various departments.

Departments which offer degrees that lead to state or national certifications use the required standardized tests for entrance and certification as their quantitative measures. These departments include accounting, dental hygiene, education, medical technology and nursing. Departments which use standardized major field tests that are offered by the Educational Testing Service or by their particular professional organization include biology, business administration, chemistry, English, environmental health, history, management technology, mathematics, physics, political science and sociology.

In major areas where standardized tests are currently unavailable, departmentally developed assessment plans have been implemented. The plans utilize one or more of the following methods: faculty developed exams, portfolio review, student interviews, external examiners, capstone projects and simulations, among others. The art, communications, computer information science, criminal justice administration, music, psychology, Spanish and theatre departments have developed such plans.

Student Development: The impact of a college is not limited to the classroom. While Core Curriculum and departmental major assessment is focused on knowledge and skill outcomes, student development assessment focuses on social and personal growth of students both in the classroom and on campus outside of the classroom. Surveys and opinionnaires are the primary methods of gathering data to assess student development. Data are collected from entering students, currently enrolled and graduating students each year to assess current attitudes and opinions. Research of lasting college impact is conducted with periodic surveys of alumni, employers and members of the local community.

Results of Assessment of Outcomes

Analysis Phase

As our Assessment program matures, we have an ongoing commitment to use the data collected from tests, surveys, etc. to analyze trends and link results to be used in the planning process. Teams of students, faculty, administrators and staff will study this data as it relates to both our service areas as well as departmental and core curricula.

Core Curriculum

In the Spring Semester, 1992, Missouri Southern administered the ACT COMP to nearly 500 senior students. Many of them had taken the same exam as freshmen, and thus were participants in a longitudinal study. They achieved a mean score of 187.2, which means that Southern's seniors scored better on average than 55% of the many thousands of similar students nationwide who also participated in this longitudinal study. Some of the institutions that also participated include Hardin-Simmons University, Illinois Wesleyan University, Northeast Missouri State University, Ohio University, University of Tennessee, and William Jewell College.

Departmental

Long-range studies are now being conducted in the departmental majors. The data colllected thus far indicates that average scores achieved by Missouri Southern students are repeatedly at or above national averages. In addition, surveys conducted to assess the impact of the college on student development and on the community yield very positive results.

Improvement of programs to increase student outcomes is first and foremost the driving force behind the assessment program.

National Teachers Examination

Graduates of MSSC's teacher education program have scored above the National average consistently through the years since 1969. The table gives the four most recent years' data.

Professional Knowledge Test

	M	SSC	Nat	tional
	Score	Percentile	Score	Percentile
Spring '89	668	64	658	48
Spring '90	667	70	657	45
Spring '91	665	65	659	45
Spring '92	664	59	659	42

Non Scholae Sed Vitae Discimus "Education not for a living, but for life."

The faculty of Missouri Southern believes all educated persons should be familiar with the knowledge base on which our society is built. We know that over the course of a lifetime most people in America will change occupations and careers several times. While technical capability and competency in the major area are essential, especially for entry level employment, advancement to higher levels always requires going beyond technical capabilities and current technology. We must be concerned with much more than preparation for the first job after graduation. That is why Missouri Southern is concerned with total education.

As an educated person, you should

- * communicate well in both written and spoken forms;
- * understand quantitative ideas;
- * work well with both groups and individuals;
- * analyze situations and ideas critically and objectively;
- * know the historical, political and cultural heritage of your nation;
- * understand something of the cultures of other societies;
- * be open to new ideas and perspectives beyond what you have known in the past.

All these attributes are of equal importance to you, regardless of career choice or technical skill. They will serve you well throughout your lifetime. Acquiring those attributes is what we mean by the "total education of the person."

Here are some of the ways we serve your total educational needs:

Teaching Emphasis

Missouri Southern is an undergraduate college. Therefore, the faculty has one primary responsibility — to help you earn your bachelor's (or baccalaureate) degree. Here you will not be taught by some other student. From your first day, you will be taught by experienced faculty, many of whom have the highest degree available in their field.

Core Curriculum

The faculty of Missouri Southern has designed a series of courses that all students earning a bachelor's degree must successfully complete. This Core Curriculum totals about 60 semester hours of credit, or almost half of the total of 128 semester hours required for the bachelor's degree. It provides a broad range of subjects for a solid foundation of liberal arts education to help accomplish that "total education." It gives you the opportunity for an experience which is usually associated with exclusive private liberal arts colleges. (On page 35 you will find a complete description of the CORE.)

Major Area of Study

Missouri Southern continues to offer the highest quality programs possible in the Schools of Arts and Sciences, Business Administration, Education and Psychology, and Technology. Many of our programs are truly outstanding, and as an institution which places teaching first, students receive the full time and attention of the faculty.

International Mission

The world is changing rapidly and dramatically. The future will belong to those who have an understanding and appreciation for the world beyond the boundaries of our country. That is why Missouri Southern has chosen to emphasize the global aspects of our entire curriculum, and to add the international dimension to all of our courses wherever possible.

Assessment of Outcomes

Missouri Southern continually assesses the effectiveness of its programs, including the Core Curriculum and all major study areas. The assessment information helps us revise and improve our programs. In this way, we ensure our curriculum is dynamic and up to date and not a static monument to past practice.

Student Services

A great deal of college education goes on outside the classroom. An array of extracurricular activities are offered to meet almost every academic and social interest. In addition, a variety of services are available to meet other educational and personal needs.

Non-traditional Students

Missouri Southern sees its sizable enrollment of non-traditional students (those over 25 years old) as a great advantage. Rarely do we find "real world" situations in which people interact exclusively with others of their own age. On our campus, students come to see each other as friends and allies, and learn to develop healthy relationships with a variety of people.

Special Programs

Your opportunity for total education is enriched through a variety of special programs including study abroad, the Honors Program, study at Oxford University in England, and the University of Salamanca in Spain, internships and independent study opportunities and special cultural events such as the Warsaw Philharmonic in 1990 and the biennial Missouri Southern International Piano Competition.

More complete information on all of these areas is found in this catalog. And, of course, our faculty and staff are always willing to help you in any way to make the most of your college education. Don't hesitate to ask. We're here for you!

Fee Policies

Schedule of Fees Incidental Fees

Fall & Spring 93-94	Missouri Resident	Nor	n-Resident
1 thru 14 hours 15 and above	\$60.50 per hour \$44.00 per each additional hour		1.00 per hour 4.00 per each additional hour
Summer Session 94	\$60.50 per hour	\$12	1.00 per hour
Other Fees Application for Admissi	on	•	10
Applied Music			65 per cr. hr.
Art Materials (Ceramic,	sculpture.	ψ	oo per cr. m.
jewelry, selected)		\$	10
Change of Class Scheo	dule (add/drop fee)	\$	5
Commencement		\$	20 - 30
Equipment Use (full-time			20 per sem.
(part-ti	me students)	\$	10 per sem.
Laboratory Breakage a			
Late Registration		\$	10
National Teachers Exa		0-	105
Parking (all students, e	ajor)		
Radiologic Technology		Ф	o per sem.
		\$	100
			40
Senior Music Recital Fe			50
Student Activity (full-tir	ne students)	\$	20 per sem.
(part-ti	ime students)	\$	
Student ID (one time) .			
		\$	5
Textbook Rental and S			The Contract of
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Other incidental fees for supplemental class materials, testing or other course-related costs may be assessed as required.

The College Reserves the right to change fees without notice.

Payment of Fees

1. Tuition and Incidental Fees

For all students who have pre-registered, at least 50% of the semester charges must be paid two weeks prior to the first day of classes for that semester. The remaining balance on account will subsequently be due before the end of the third week of the semester. Failure to remit the first 50% installment according to these payment terms will result in an immediate drop from all pre-registered classes before regular registration.

For students who enroll during regular registration, payment of 100% of the fees charged will be due and payable on the day of registration. Failure to remit the balance due will result in an immediate drop from the student's class schedule.

Statements of account will be mailed to all pre-registered students prior to the initial payment deadline. Final statements will be mailed at the end of the first week of the semester.

It is extremely important to realize that a financial obligation is incurred at the time of enrollment. Services are rendered as of the first day of class so unless a student officially withdraws prior to that day, fees will be assessed in full. No reduction in charges according to the College refund policy will be credited to the student's account until an official withdrawal is completed. Failure to pay fees in accordance with the stated payment plan will not necessarily relieve the fianancial obligation incurred if the student is dropped for non-payment.

Students expecting their fees to be paid through financial aid sources must have all documentation filed with the Financial Aid Office by August 1st for the Fall term, and by January 1st for the Spring term in order to receive consideration for payment deferment.

Appeals concerning special problems pertaining to fees should be directed in writing to the Senior Vice President in Hearnes Hall, Room 200.

Residence Hall fees may be paid in full by the first day of the semester or in three installments as indicated below:

Fall Semester, 1993	Spring Semester, 1994
August 9 \$649	January 3 \$649
September 10 \$649	February 4 \$649

Students will not be permitted to move into the Residence Halls without remitting payment as indicated above or receiving a payment deferment from the Financial Aid Department.

Fee Information

Application for Admission A non-refundable fee is charged for processing applications for admission. The payment of this fee should be mailed with the application.

Applied Music For one 30-minute lesson per week in applied music, the usual fee is \$65 per credit hour.

Art Materials This fee provides for materials such as clay, glazes, waxes, solder and other similar items necessary for the course projects. Other materials are required to be purchased by students such as paper, brushes, watercolors or oils.

Change of Class Schedule Students are charged \$5 for each class change made after classes begin (refer to College Calendar).

Commencement Candidates for the associate or baccalaureate degrees are charged a commencement fee. This covers the cost of the diploma, cap and gown and other commencement activities. The fee is subject to refund only when the candidate fails to qualify for graduation.

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Evening Session Students enrolled in evening classes for regular college credit courses, applicable toward an associate or baccalaureate degree, are subject to the same fees, rules and regulations of the day session. Special fees are announced in the Evening Session Bulletin for classes not applicable to an associate or baccalaureate degree.

Laboratory Breakage and Materials There are no charges for the use of equipment in laboratories. The student will be expected to pay for excessive breakage or loss of equipment due to negligence on the part of the student. A fair actual value of the loss will be determined by school officials. Students will pay for materials used in individual projects.

Late Registration A late registration fee is charged students who register after classwork begins. This fee is not refundable.

Miscellaneous Fees Occasionally certain additional fees may be assessed for classroom materials such as computer disks, computer manuals, training equipment or other items utilized in class instruction.

Student Activity Fee This charge is to support activities of the Student Senate, the Campus Activities Board and the Crossroads yearbook. The College photo identification card will allow admittance to most sports, theatre and music events of the College, and will allow the student to check out books from the College Library.

Equipment Fee This fee enables the College to purchase the most technologically current equipment for instructional use in the classroom and laboratories. All equipment acquired through these fees will directly benefit the student in their college course work.

Student ID Fee This one time fee will enable the student to acquire a College photo identification card. This card is necessary not only for identification purposes, but must also be presented when checking out library materials, eating meals under the Residence Hall meal plan or being admitted to campus events.

Summer Session Rules and regulations which govern admission to the first and second semester during the regular school year shall apply to the Summer Session.

Textbook Rental and Instructional ServicesThe College operates a textbook rental system through the College Bookstore. While certain courses require the students to purchase books, most courses will only require the use of a rental textbook. Before rental books may be checked out, the student will be required to have paid at least 50% of the total fees for the semester. Students must return these textbooks on the last day of finals for any given semester. At that time, a fee refund will be credited to their account and carried over to the next term. Purchase Books will not be billed to the student's account but must be paid for at the time they are acquired at the Bookstore.

Transcripts Each student is entitled to two official transcripts without charge. Payment must accompany the written request for each additional transcript.

Refund Policy

(Except for Residence Hall Charges)

During the course of any semester, if a student finds it necessary to drop individual classes or fully withdraw from college the fee refund policy is as follows:

For Fall and Spring Semesters	
Prior to the first day of class 100	% refund
First through fifth weeks60	
After the fifth week	

For Summer Semester	
Prior to first day of class	00% refund
First through third weeks	
After the third week	0% refund

Withdrawal from classes during the refund period means that the student will be responsible for 40% of the cost of tuition.

First time students at the College who receive Federal financial aid under Title IV and who totally withdraw from classes during their first academic year shall receive a pro-rata refund based on a Federally mandated schedule. Copies of the refund schedule are available in the Business Office.

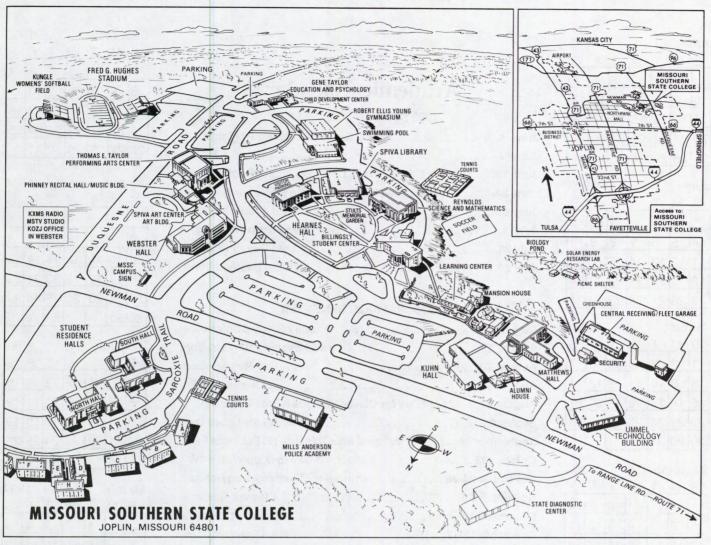
To be eligible for a refund, the student must formally complete a drop or a withdrawal form and submit it to the Registrar's Office. Failure to attend classes will not constitute a withdrawal.

If the student withdraws after payment of any or all fees for the semester, any monies due to the student will be mailed after fee refunds have been applied. However, if the college costs have been paid partially or fully by financial aid (scholarships, grants, loans, other government assistance programs, etc.) the refund monies will be first applied to the financial aid program source. Once these awards have been fully refunded, any remaining balances will be forwarded to the student.

All refunds must be claimed during the term for which the refund applies. Students who feel that individual circumstances warrant exceptions to this policy may appeal in writing to the Senior Vice President. This appeal must be made during the term for which the refund applies.

For policies concerning fee refunds for Residence Hall charges, please refer to the Housing contract.

Directory/Map / 13



Building Directory

Alumni House

Alumni/Development Office Missouri Southern Foundation

Anderson Police Academy

Firing Range Law Enforcement

Regional Crime Laboratory

Art Building

Art Department Spiva Art Center

Billingsly Student Center

Bookstore Food Service

Meeting/Game Rooms

Career Planning/Placement

Public Information Office

Student Activities, Student Services

Ticket Office

Biology Pond

Picnic Pavilion

Solar Energy Laboratory

Campus Directory

Hearnes Hall

Administrative Offices Admissions, Financial Aid Counseling **English Department** Registrar

Hughes Stadium

Kuhn Hall

Kungle Softball Field

Maintenance Office

Central Receiving

Campus Security

Greenhouse

Matthews Hall

Business Administration

Computer Science

Matthews Hall Auditorium

Mission Hills Mansion Complex

Learning Center

Military Science Building

ROTC

Music Building

Phinney Recital Hall

Reynolds Hall

Biology, Mathematics,

Physical Sciences Departments

Soccer Field

Spiva Library

Student Residence Halls

Stults Memorial Garden

Taylor Hall

Child Development Center **Education Department** Psychology Department

Taylor Performing Arts Center

Theatre Department

Ummel Technology Building

Drafting/Design

Dental Hygiene Departments

Manufacturing Technology

Tennis Courts

Veterans' Memorial

Webster Hall

Communications Department

Continuing Education

Honors Program

KOZJ Office

KXMS Radio

MSTV Studio

Social Science Department

Webster Hall Auditorium

Young Gymnasium

Physical Education Department Sports Information Office

Swimming Pool/Racquetball

Varsity Athletics

P - Parking **VP - Visitor Parking**

Joe Becker Stadium, home of the Baseball Lions, is on 3rd and High Streets.

14/Calendar

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Academic Calendar

1993 SUMMER SEMESTER

June 4	Day and Evening Registration
June 7	Classes Begin
June 10	Last Day for Class Changes & Late Registration
June 24	Withdrawal After This Date No Refund of Fees
July 5	4th of July Holiday
July 8	Last Day to Drop With a "W"
July 28	Last Day of Classes
July 29	Final Examinations

1993-1994 FALL SEMESTER

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August 19	Faculty Study Conference
August 19	Day and Evening Registration
August 20	Day Registration
August 23	Classes Begin
August 27 Last Day for Cl	lass Changes & Late Registration
September 6	Dismissal for Labor Day
September 24 Withdraw	ral After This Date No Refund of Fees
October 22	Last Day to Drop With a "W"
November 24-26 Dis	smissal for Thanksgiving Holiday
November 29	Classes Resume
December 10	Last Day of Classes
December 13-17	Final Examinations
December 17	End of Semester

1993-1994 SPRING SEMESTER

January 13	Faculty Study Conference
January 13	Day and Evening Registration
January 14	Day Registration
January 17	Classes Begin
January 21 Last Day f	for Class Changes & Late Registration
February 18 Withdra	awal After This Date No Refund of Fees
February 23	Senior Assessment Day
March 14-18	Spring Break
March 21	Last Day to Drop With a "W"
May 11	Last Day of Classes
May 12	Reading Day—No Finals
May 13-19	Final Examinations
May 19	End of Semester
May 21	Commencement

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Academic Calendar

1994 SUMMER SEMESTER

June 3	Day and Evening Registration
June 6	
June 9Last [Day for Class Changes & Late Registration
June 23 With	drawal After This Date No Refund of Fees
July 4	4th of July Holiday
July 7	Last Day to Drop With a "W"
July 27	Last Day of Classes
July 28	Final Examinations

1994-1995 FALL SEMESTER

August 18	Faculty Study Conference
August 18	Day and Evening Registration
August 19	Day Registration
August 22	Classes Begin
August 26 Last Day for 0	Class Changes & Late Registration
September 5	Dismissal for Labor Day
September 23 Withdrawa	After This Date No Refund of Fees
October 21	Last Day to Drop With a "W"
November 23-25	Dismissal for Thanksgiving Holiday
November 28	Classes Resume
December 9	Last Day of Classes
December 12-16	Final Examinations
December 16	End of Semester

1994-1995 SPRING SEMESTER

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January 12	Faculty Study Conference
January 12	Day and Evening Registration
January 13	Day Registration
January 16	Classes Begin
January 20 Last Day for Cla	ss Changes & Late Registration
February 17Withdrawal A	fter This Date No Refund of Fees
February 22	Senior Assessment Day
March 13-17	Spring Break
March 20	Last Day to Drop With a "W"
May 10	Last Day of Classes
May 11	Reading Day—No Finals
May 12-18	Final Examinations
May 18	End of Semester
May 20	Commencement

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Correspondence/Facilities

Missouri Southern State College 3950 E. Newman Road Joplin, Missouri 64801-1595 (417) 625-9300

24 hr. answering service 782-MSSC For admissions and financial aid infomation toll free 1-800-492-4811 (Toll-free in MO, AR, KS-316, and OK-918 only)

Admission of students Director of Admissions	625-9378	Cafeteria	625-9546
Alumni affairs Director of Alumni Affairs	625-9396	Child Development Center	625-9360
Business affairs		Continuing Education	625-9384
Assistant Vice President of Business Affairs	625-9728	Counseling	625-9324
Catalog & bulletins Director of Admissions	625-9378	Crime Laboratory	625-9382
Credit evalutions/transcripts Registrar	625-9389	Dental Hygiene Clinic	625-9379
Evening session		Grammar Hotline	624-0171
Vice President for Academic Affairs	625-9394	Honors Program	625-9686
Faculty appointments		KXMS-FM	625-9356
Vice President for Academic Affairs	625-9394	Learning Center	625-9373
Financial aid Office of Financial Aid	625-9325	Library	625-9386
Gifts & annuities President	625-9500	Maintenance	625-9387
Housing Director of Housing	625-9522	Missouri Southern Foundation	625-9396
Loans Office of Financial Aid	625-9325	MSTV	625-9375
News/publications Director of Public Information	625-9365	Purschasing	625-9388
Orientation Director of Orientation	625-9542	Safety & Security	625-9391
Placement services Director of Placement Services	625-9343	School of	
Student employment Office of Financial Aid	625-9325	Arts & Science	625-9385
Student organizations		Business Administration	625-9319
Coordinator of Student Activities	625-9320	Education & Psychology	625-9314
Summer session		Technology	625-9328
Vice President for Academic Affairs	625-9394	Sports Information	625-9359
Testing Director of Counseling	625-9324	Student Activities	625-9320
Veterans affairs Veterans Counselor	625-9529	Swimming & Racquetball	625-9390
Athletics (men)	625-9317	Ticket Office	625-9366
Athletics (women)	625-9316	Vice President, Student Services	625-9392
Bookstore	625-9380		

Additional areas (for academic department numbers, see department information in each school)

Facilities

Missouri Southern moved to the present campus site in 1967. With few exceptions, all of our present facilities have been constructed since that date, and thus we have a modern and up-to-date physical plant.

Hearnes Hall houses central administration and the English department.

Spiva Library is a modern information resource center including an audio visual center.

The School of Education and Psychology is located in Taylor Hall.

The Mansion, landmark from the 1920s, provides facilities for the Learning Center.

The Anderson Police Academy is the location for the School of Technology, military science, the Crime Lab and the department of criminal justice administration.

Taylor Auditorium and Spiva Art Center are used by fine arts students and faculty.

Kuhn Hall houses the nursing department.

Reynolds Hall provides classroom, office and laboratory space for mathematics and sciences.

The Ummel Technology Building is used by CADD, CAMT and the dental hygiene programs.

Matthews Hall is the facility for the School of Business Administration and the department of computer science.

Billingsly Student Center provides facilities for administrative offices as well as student activities.

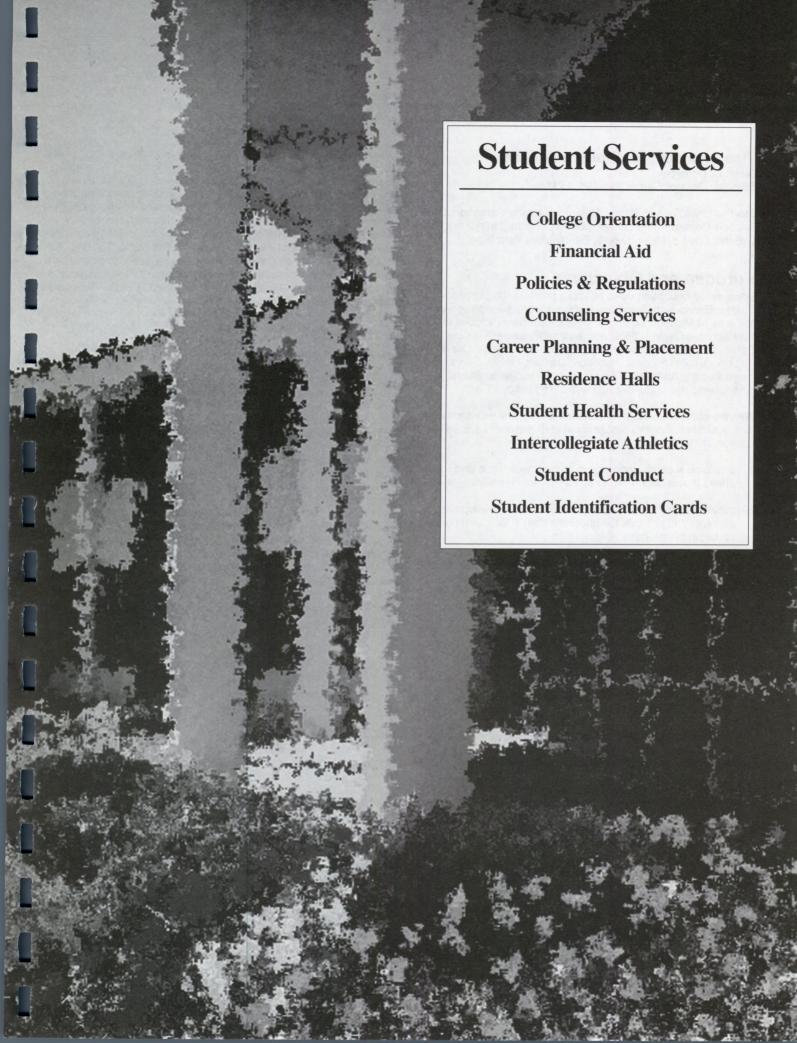
Webster Hall houses the communications and social science departments as well as studios for Missouri Southern Television and KXMS fm radio.

Young Gymnasium and Hughes Stadium are modern teaching and athletic facilities.

The **Alumni House** provides offices for the Southern Foundation and alumni operations.

Residence facilities include **South Hall, North Hall, Annex 1** and **2**, and Buildings **A**, **B**, **C**, **D**, **E**, **F**, **G** and **H**.

Additional facilities include maintenance and shop buildings.



Student Services

Vice President for Student Services

Glenn D. Dolence Billingsly Student Center 211, 625-9531

Staff Allman, Beard, Binns, Blanford, Carlisle, Carnahan, Deem, Dobson, Doman, Foster, Frazier, Gilbert, Gipson, Humphrey, Karst, LeBahn, Loome, Miller, Oakes, Pennington, Vermillion

Purpose and Objectives

Because all education does not take place in the classroom, the Student Services staff provides a wide variety of support services for students at Missouri Southern. The department includes the Student Services Central Office, Admissions, Financial Aid, Counseling Services, Career Planning and Placement, College Orientation, Residence Life, Student Activities, Student Health Services and Intercollegiate Athletics. (For admissions requirements and procedures, see page 31 under Academic Regulations.)

With the objective of helping students to fully develop and achieve their educational goals, professional staff members are trained to support students by:

- providing a campus climate in student residence and campus affairs that is conducive to academic achievement;
- providing services which will assist in the self-development of all students and promote the understanding of their own purposes for being in college;
- providing, through student government, student organizations and other activities, both an opportunity to practice democratic living, with both rights and responsibilities, and a chance to learn to work effectively and cooperatively with others;
- providing an opportunity for those individuals who are capable of profiting from higher education by providing financial assistance, when necessary, in the form of scholarships, grants, loans and employment;
- helping each student develop a sense of individual responsibility and self-discipline;
- interpreting college objectives, policies and rules to students and communicate student attitudes, opinions and activities to the faculty, administration and general public;
- providing student health services that meet the emergency and temporary medical needs of all students;
- 8. providing an opportunity for students to gain information about the world of work and job opportunities; and
- providing assistance and direction in matching student qualifications with job requirements.

College Orientation

Billingsly Student Center 211, 625-9542

To assist all new students in the transition to college life, Southern has designed an orientation program to help them become acquainted with college personnel, services, policies, procedures and

personal issues. The program operates in small group settings with peer leaders to provide open discussion of all factors that contribute to a successful college career. The eight-week course is offered at the beginning of fall and spring semesters and includes the assignment of an academic adviser for each student. Members of the Student Services staff serve as academic advisers for students who have not declared an academic major. Special orientation courses are available for transfer and non-traditional students. The Director of College Orientation coordinates a nine-day summer orientation program as well as the fall and spring programs. The Orientation Office is located in the Central Student Services Office, 211 Billingsly Student Center.

Financial Aid

Hearnes Hall 114, 625-9325

Missouri Southern participates in a variety of aid programs to assist qualified students who would otherwise not be able to attend college. These funds - from private, institutional, state and federal sources - are coordinated to meet the individual student's need. There are programs based on various criteria such as financial need, performing ability and academic excellence. Each program has requirements for maintaining the award and students must meet satisfactory academic progress guidelines for continued assistance. Foreign students are required to present a financial statement certifying they have sufficient funds to pay for all educational expenses. Information in this catalog regarding financial aid is subject to change without notice. Missouri Southern reserves the right to adjust a student's financial aid package to reflect a true change in the student's financial situation. Financial aid awards are subject to changes in institutional policy and State and Federal regulations.



Financial Aid / 19

Scholarships	Who Is Eligible	How Much	How to Apply
Honors Program	Students who score 28 or above on the ACT Placement Test or with a 3.5 GPA in high school course work	Full tuition and fees for ACT scores that fall within the 99th percentile	Send test scores to Director of Honors Program and request application
President's Scholarships*	First and second ranking students in each accredited high school in the College's service area	1993-94 \$1140.00	Upon recommendations of high school counselor; scholarship is validated when recipient enrolls as a freshman
Regents' Scholarships*	Awarded directly to high school graduates who score 25 composite score or higher on the ACT and have a 3.0 high school GPA	1993-94 \$760.00	Have ACT Placement Test scores sent to Counseling Office
Deans' Scholarships*	High school graduates who rank in the upper 20% of their graduating class and have a composite ACT of 21 or above. Can not be used in conjunction with the President's, Regents' or Honors Program Scholarships.	1993-94 \$580.00	Contact your high school counselor
Non-Resident Service Area Scholarships	Students graduated from a high school outside of Missouri, but within the college service area. ACT composite of 21 or above and meet admissions criteria.	Equal to the difference between resident and non-resident fees.	dimondianalista se
Junior College Transfer Scholarships*	Junior college graduates with a 3.0 GPA and students who have completed 55 hours or more with a 3.0 GPA at a junior college.	1993-94 \$760.00	Complete a Junior College Transfer Application
Non-Resident Junior College Transfer Scholarships	Attended junior college outside of Missouri but within the college service area and successfully completed 55 hours and a 3.0 GPA at the above junior college.	Equal to the difference between resident and non-resident fees.	
Patron's Scholarships	Criteria established by individual donors	Awards range from \$50 to \$1500 as determined by individual donors	Applications available in Financial Aid Office; application deadline March1
Performing Aid Awards	Students who have demonstrated success or high potential in forensics, journalism, music, mathematics, theatre, baseball, football, golf, softball, volleyball, basketball, soccer, tennis, etc.	Awards range from \$50 to full scholarship consisting of tuition, fees, room and board	Apply directly to the director or sponsor of particular activity
ROTC Scholarships	Outstanding students enrolled in military science	One-year, two-year and three- year scholarships for tuition, lab fees, on-campus educational fees and incidentals, plus up to \$1,000 tax-free subsistence allowance each school year	Applications available from the military science department

^{*}Students receiving President's, Regents', Deans' and Junior College Transfer scholarships must enroll in and complete at least 12 hours each semester with a 2.5 GPA the first semester and a 3.0 GPA the following semesters.

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Grants	Who Is Eligible	How Much	How To Apply
Federal Pell Grant	Federal Aid program based on financial need. All students should apply.	Grants range from \$200 to \$3700 depending on where the student lives and educational costs.	Complete an approved need analysis; MSSC prefers the electronic application, priority date February 15.
Missouri Student Grant	State funded program for Missouri residents; based on financial need.	Maximum grant not to exceed one-half the cost of tuition and fees.	Complete an approved need analysis. Deadline April 30.
Federal Supplemental Educational Opportunity Grants (SEOG)	Students with exceptional financial need.	Grants range from \$100 to \$4000 per academic year.	Complete an approved need analysis. MSSC prefers the electronic application, priority date February 15.
COPHE Teachers Scholarship	Graduating H.S. seniors	\$1000	COPHE Scholarship Application
Missouri Teacher Education Scholarship	Upper 15% of graduating class or score in the upper 15% on recognized exam.	\$2000 per year	Missouri Teacher Education Scholarship application available in the Financial Aid Office.
Robert C. Byrd's Honors Scholarship	Graduating H.S. seniors	\$1500	Byrd Scholarship Application
Missouri Higher Education Academic Scholarship	Graduating H.S. seniors	\$2000	Missouri Higher Education Academic Scholarship Application

Employment Programs	Who is Eligible	How Much	How to Apply
Federal Work Study Program	Federal Aid program based on financial need. All students should apply.	Minimum wage, weekly hours based on need.	Complete an approved need analysis. MSSC prefers the electronic application, priority date February 15.
Student Help Program	On-campus employment for students who are qualified to fill job openings.	Minimum wage, weekly hours depend on operational need.	Apply to Student Employment Office or to individual departments on campus.
Job Location & Development	All students unless other aid criteria conflicts.	Minimum wage and up.	Fill out MSSC Employment Application, make an appointment.

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Loans	Who Is Eligible	How Much	How to Apply
Federal Perkins Loan	All students who demonstrate financial need and have completed appropriate documentation as required by Federal regulations.	Need to \$3000 per year, Aggregate total \$15,000	Complete an approved need analysis. MSSC prefers the electronic application; priority date February 15
Federal Stafford Loans - subsidized	All students who demonstrate financial need and have completed appropriate documentation as required by Federal regulations.	1 year up to \$2625 2 years up to \$3500 3 years up to \$5500 4 years up to \$5500 Aggregate total \$23,000	Application and special instructions available in Financial Aid Office. Complete an approved need analysis. MSSC prefers the electronic application; priority date February 15.
Federal Stafford Loans - unsubsidized	Same as subsidized Federal Stafford Loans.	Cost of education minus other aid equals eligibility.	
Federal SLS	Regular student must apply for Federal Aid programs.	\$4000 per year Freshman & Sophomore \$5000 per year Junior & Senior Aggregate \$23,000	Application and special instructions available in Financial Aid Office. Complete an approved need analysis. MSSC prefers the electronic application; priority date February 15.
Federal PLUS	Regular student must apply for Federal Aid programs.	Cost of education minus other aid equals eligibility.	
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Other Assistance	Who is Eligible	How Much	How to Apply
Academic Management Service	All students are eligible for this monthly budget plan which allows payment of fees over a 10-month period and provides insurance coverage for the person making the payments.	Ranges from \$25 to full cost of tuition, fees, room and board; or the difference between total direct educational costs and other financial aid awarded.	Applications available in the Financial Aid Office
Veterans' Administration Benefits	Veterans eligibility is determined by when the veteran entered military service, length of duty and several other factors.	Amount varies depending on chapter and enrollment status.	Contact: Veterans' Administration Officer, Veterans' representative on campus or Veterans' Administration Regional Office
Bureau of Indian Affairs	Students who can prove they are at least one-fourth Indian blood.	Awards range from partial tuition to full tuition and fees.	Contact: Bureau of Indian Affairs, Higher Education Office, Federal Building Room 300, Muskogee, OK 74001
Vocational Rehabilitation		Awards range from \$25 to full tuition, fees, room and board.	Contact: Vocation Rehabilitation Office, 1609 East 20th, Joplin, MO 64801

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How to Apply for Financial Aid

All applicants must complete an approved need analysis application. MSSC prefers CSX'S AFSSA form. Application deadline is April 30; however, awards will be made until all funds are expended. This application will generate a Pell Grant, Missouri Grant and a financial aid report.

Students who have not submitted all necessary financial aid documentation by August 1 for the Fall term and January 1 for the Spring term will be expected to pay their fees in full by the deadlines set out in this catalog. Payment deferments will only be available to those students who meet with the application deadlines and have provided all required documentation for eligibility determination.

- Processing applicants should bring or mail all copies of the Federal Pell Grant Student Aid Report to the Financial Aid Office as soon as they receive the document.
- Applicants selected for verification must bring or mail a copy of their own and if under 24, their parent's 1040 Income Tax Form to the Financial Aid Office. These signed documents must be on file before any award will be processed.
- Applicants must indicate on their Supplemental Data Sheet the type of assistance for which they wish to apply. In addition, applicants for Stafford, PLUS and SLS loans must complete a separate loan application.
- 5. Applicants for Patron Scholarships must complete a scholarship application and return it to the Financial Aid Office by March 1.
- Transfer students must request a financial aid transcript for each college previously attended.
- Applicant for performing awards should contact the director of the program in which they wish to participate.
- Applicants for special programs should contact the Financial Aid Office for instructions.

Policies and Regulations

Academic Standards: The student's academic progress will be determined in May of each year. However, if minimum standards of hours or grade point average are not met in the fall semester, the student automatically will be placed on financial probation for the spring semester. If satisfactory progress is made during the fall, but not during the spring semester, the student will be allowed one semester on probation to make up all deficiencies. After the probationary semester, grades will be checked and the number of courses will be verified to see if a minimum standard has been completed. If satisfactory progress is not maintained, the student will be placed on financial suspension until the required GPA is reached or course work is completed.

All financial aid recipients must meet the appropriate GPA as published in the College Catalog, (page 40, Standards of Progress Toward Graduation). After the second year, federal regulations require the student to have a cumulative "C" average or 2.0 GPA or, in cases where a higher GPA is required for graduation, the student must meet that higher GPA. Students receiving financial aid must meet federal guidelines. If the GPA falls below the minimum standard of progress, the student will be placed on probation.

The maximum time in which a student is eligible to receive financial assistance is as follows:

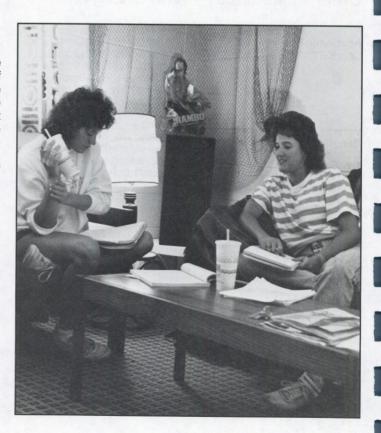
Maximum Semesters of Aid Eligibility					
Degree	Full-Time	3/4-Time	Half-Time		
Bachelor	12	18	24		
Associate	6	9	12		
Certificate	3	5	6		

Note: It is automatically assumed that students who do not indicate a degree program are pursuing a baccalaureate degree. All financial aid recipients must complete the appropriate number of hours depending on the categories in which they enroll and receive payment.

All financial aid recipients must complete the appropriate number of hours depending on the categories in which they enroll and receive payment.

Category Completed	Hours per Semester	Hours per year
Full-time	12 or more	21 hours per year
3/4-time	9 to 11	15 hours per year
Half-time	6 to 8	9 hours per year

Note: In calculating the minimum hours completed per year, the following will not be counted: incompletes, repetitions, non-credit remedial courses, audited courses and withdrawals. However, if withdrawal from a class results in a change in categories, the originally required payment hours must be completed. If the minimum required hours are not completed, the student will be placed on probation. Students who fail to complete the minimum required hours during the academic year (fall and spring) or whose grades are below the minimum, may make up their deficiencies in summer school.



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All aid will terminate immediately under the following situations:

- 1. withdrawal from all classes:
- failure to meet special requirements of academic progress imposed by the Financial Aid Committee; or
- default on any federally funded student loan or over payment of any Title IV funds;
- 4. all "F" grades in a semester.

Appeal Procedures

Students may appeal the suspension of aid to the Director of Financial Aid. After reviewing the file, the did if a course failure was due to medical circumstances, change of degree, change of major or circumstances beyond control.

If the Director denies the appeal, an appeal may be made to the Financial Aid Committee. The student must submit in writing an explanation of any special circumstances in addition to the ones listed that the committee should consider in determining whether any aid should be reinstated. After reviewing student records and written comments, the committee will give written notification of its decision. The notification will state whether or not the aid should be continued and the requirements for reinstatement. The decision of the Financial Aid Committee is final.

It is assumed that transfer students are making satisfactory academic progress when they enroll at Missouri Southern. They will be evaluated at the end of their first full academic year.

Students may continue to receive assistance under the following mitigating circumstances: meeting standards or on probation under old policy, medical problems, change of degree objective, change of major or other extenuating circumstances. The Director will determine the validity of these circumstances, provided there is appropriate documentation. Under these circumstances, students need not go through the appeal process.

For further information concerning academic progress, see the Financial Aid Office Procedure Manual in the Financial Aid Office.

Other Duties and Responsibilities of Financial Aid Recipients

Students must report the following changes to the Financial Aid Office:

- 1. withdrawal from school,
- 2. a significant change in income,
- 3. added or dropped classes during the semester,
- 4. a name change,
- 5. change of address or change of parents' address,
- 6. transfer to another college.

Work Study recipients must contact the Student Employment Office for job placement within five days of the beginning of the semester.

Missouri Southern operates on a financial aid data base system which processes applications and awards electronically. It is to the applicant's advantage to use forms and lenders which are capable of processing data by teletransmission. The electronic system requires student signatures on student aid reports, documentation, award letters, loan applications and promissory notes before funds can be processed.

Financial aid funds will be credited to the student account. Once all fees have been satisfied, monies awarded that may go directly to the student will be mailed by check to the address provided at the time

of registration. Checks are first written at the end of the third week and thereafter every two weeks throughout the semester. Student employment checks, Stafford Loan checks and SLS Loan checks must be picked up in person at the Business Office upon notification of their availability.

Veterans must sign up for veterans' benefits at the beginning of each semester.

Counseling Services

Hearnes Hall 114H, 625-9324

Missouri Southern students may receive individual personal counseling and professional testing and assessment in the Counseling Center located in Suite 114 of Hearnes Hall. Professional staff members offer individual counseling for academic or personal concerns, a variety of tests and inventories and referral services.

Testing Services

Missouri Southern is a national testing center for the following examinations:

- 1. ACT (Placement test for college entrance)
- 2. NTE (National Teachers Exam)
- 3. EESN (Entrance Examination for Schools of Nursing)
- 4. DHAT (Dental Hygiene Aptitude Test)
- 5. MAT (Miller's Analogy Test for graduate school)
- 6. CLEP (College Level Examinations Program)

The Counseling Center also gives the GED (General Education Development High School Equivalency Test) as a service to the people of Southwest Missouri who were unable to complete their high school education. The person making an acceptable score on the GED test will receive a high school equivalency certificate from the Missouri State Department of Education. Applications for GED testing are available from the Counseling Center.

All students whose native language is not English, who wish to transfer with 24 hours or more and do not have a TOEFL score of 535, will take, by appointment, the Michigan Test of English Language Proficiency.

The CLEP (College Level Examination Program) is administered by appointment. The student must contact the Counseling Center to register prior to the testing time/day. This program is designed to allow students to receive, upon attaining a passing grade, proficiency credit for general education and other freshman/sophomore programs. The Counseling Center also provides proctors and a testing room for students taking correspondence courses from other accredited institutions. Appointments must be made prior to taking the test. A fee will be charged for each test administered.

Counselors for Special Students

Certified counselors and advisers are available in the Counseling Center, 114 Hearnes Hall, for veterans, students with physical handicaps, and other special needs. The veterans' counselor is the certifying official for the College and the contact person for veterans' educational benefits. Veterans' enrollment must be certified each semester and the veterans' counselor must be informed of any changes of enrollment during the semester.

A designated counselor will assist students with physical handicaps with early enrollment, assistance in overcoming barrier problems, readers for the blind program and other concerns.

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Academic/Career Planning

Students who have not declared an academic major or who are uncertain of their major may discuss career opportunities with a professional counselor. Interest, ability and personality inventories are used by the counseling staff to assist in career decision making. A library of career materials is also available to assist students in making academic/career decisions.

The DISCOVER program, a computer based career guidance system, is also available and designed to assist students in clarifying values, assessing competencies and interests, making decisions, securing information on occupations and selecting appropriate strategies to reach career plans.

Non-Traditional Student Program

Students who have been out of school for several years often have unique concerns about returning to college. Workshops to ease the transition to college are offered periodically. A "Return To Learn" course is offered each semester as the orientation course for returning students. An organization for adult students is also available to assist in meeting the needs of adult students. The office of the counselor for non-traditional students is located in the Counseling Center, 114 Hearnes Hall.

Student Activities

Billingsly Student Center 101, 625-9320

The Coordinator of Student Activities works closely with other Student Services personnel and the Campus Activities Board in providing a variety of services for students, faculty and staff at Missouri Southern.

Campus activities are scheduled in the Student Activities Office and reservations for space and food service in Billingsly Student Center are made in this office. The office also handles ticket sales for off-campus activities and entertainment.

Campus Activities Board (CAB)

The Campus Activities Board, a student organization supported by student activity fees, has the responsibility for programming social, educational and recreational activities for the entire college community. Students may volunteer to serve on one of the eight CAB committees: concerts, cultural affairs, coffeehouse, dances, movies, speakers, special events, and tour and travel. Interested students may apply in the CAB office on the lower level of Billingsly Student Center.

Student Government

The Student Senate serves as the governing body for students and acts as a liaison between the faculty and the student body. The responsibility for student government rests not only with the student officers, boards and committees but also with each member of the student body. The Student Senate is made up of nine senators from each class, who are elected in the fall, and the executive officers, who are elected in the spring. The Student Senate is funded from student activity fees.

Career Planning and Placement

Billingsly Student Center 207, 625-9343

Career Planning and Placement Office assists students and alumni in the development of employability skills necessary to conduct a successful job search and in the location of full-time employment. On-campus interviews are scheduled for seniors and alumni with representatives from business, industry, government and educational institutions. Students are encouraged to visit Career Planning & Placement to take advantage of on-campus interviews, vacancy listings, career fairs, workshops, mock interviews and assistance in preparing resumes.

Career Planning & Placement also maintains a career library which contains information on major businesses, industries and educational institutions. Information about graduate schools is available in this library along with information to aid students in choosing a career and in the job search.

Residence Halls

Billingsly Student Center 212, 625-9522

The Missouri Southern on-campus residence requirement is as follows: "All freshmen and sophomores are required to live in the Missouri Southern residence halls to the extent space is available, unless they are married, live with their parents, live with a relative or are excused by the Director of Student Life."

The College provides residence hall accommodations and meals for approximately 600 full-time students. Concerned with the total needs of the students, the College maintains a safe and comfortable place to live and an adequate physical environment as well as opportunities for learning. The atmosphere in the residence halls contributes significantly to the students' personal growth and maturity.

The residence halls are staffed by two full-time professional resident directors and 18 paraprofessional staff assistants. The governing body for resident students is the Residence Hall Association (RHA) which provides educational, social and athletic programs for the students and acts as a liaison between resident students and the College administration.

Residence hall rooms are fully furnished except for linens and personal items. Cable TV rooms, study lounges, recreational areas, personal computers, vending machines, coin-operated laundry facilities and pay telephones are in the residence halls. Private telephones may be installed in individual rooms with the occupants responsible for installation charges and monthly billings.

Resident students also are entitled to food service. Twenty meals a week are served in the Student Center Cafeteria.

To reserve a room in a college residence hall, a prospective student should request an Application Contract for Room and Board Accommodations from the Missouri Southern Housing Office. The completed Application Contract should be returned to this office with a \$75 security deposit. The deposit is retained by the College as long as the student is in residence and refunded upon termination of the contract if all terms of the contract are fulfilled.

This contract, which is a combined contract for room and meals, is effective for the entire academic year (fall and spring semesters) or for the remaining portion of the academic year if entered into after the beginning of the fall semester. Detailed terms will be found on the contract form.

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The College is not responsible for the loss of or damage to, any personal property of students.

For detailed rules and regulations governing residence hall living at Missouri Southern, contact the Housing Office, Room 211, Billingsly Student Center.

Student Health Services

Kuhn Hall 303, 625-9323

The faculty and staff of Missouri Southern are interested in students' physical and emotional well-being as well as their intellectual and cultural development. The Student Health Center, staffed with a fulltime registered nurse and a physician on call, is open Monday through Friday from 8 a.m. to 4 p.m. There are two weekly clinics available to students when the college physician is on campus; times and hours for these clinics can be obtained by contacting the Health Center. All currently enrolled students are eligible for treatment at the center. Some of the services offered are: first aid and injury care, allergy injections, TB skin testing, flu shots (in season) and screening for certain illnesses. Most services are free; however, students are expected to pay for laboratory, x-ray, emergency room, hospital services, prescriptions and ambulance service. The Health Center also maintains files on current students, including medical history and immunization records. Recommendation and referral to community/campus resources are also a part of our student health service.

Communicable Diseases

Students must have proof of immunization, including two doses of measles/rubella vaccine, on file in the Student Health Center. When a communicable disease comes to the attention of the College, whether student, faculty or staff member, the College's physician and nurse will assume responsibility for conducting a thorough review based upon the best medical and legal information available. Students who have not been properly immunized or who have not had these diseases may be banned from College property in the event of an outbreak on campus. Any actions taken will respect the confidentiality of the individual as well as the individual's welfare and that of the College community.

A voluntary accident and sickness insurance plan for students is available from the Student Services Office, Room 211, Billingsly Student Center.

Smoking and Tobacco Use Policy

The Board of Regents of Missouri Southern State College prohibits smoking and tobacco use of any kind. Tobacco products are not permitted in any campus buildings. Smoking and other tobacco usage is only permitted outside of buildings and in designated residence hall rooms.

Intercollegiate Athletics

Young Gymnasium 122 (men), 625-9317 Young Gymnasium 215 (women), 625-9316

Missouri Southern's athletic program is based on the concept that intercollegiate athletics are an integral part of the total educational process, subject to the same aims, policies and objectives as other departments. The College's sound athletic program provides the benefits of athletic participation while assuring that athletes fulfill their responsibility as students. Though the primary concern is that

the athletic program further the educational process, the College must be aware of the public attention that focuses on the institution through intercollegiate sports. While the public attention and the entertainment aspects of intercollegiate sports must be recognized, they are secondary in importance to the role of athletics in the total educational program.

The staff of the athletic department provides quality programs for students who express an interest in various sports. Male and female students have similar opportunities to participate in athletic activities with appropriate support.

The College is a member of the Missouri Intercollegiate Athletic Association and the National Collegiate Athletic Association, Division II. College teams compete on the intercollegiate level in baseball, basketball, football, golf, soccer, softball, tennis, volleyball, cross country and track.

Student Conduct

In order to provide the best possible environment for personal and intellectual growth, the College has established regulations to guide student conduct. A summary of these rules and regulations is found in the Student Handbook which may be obtained from the Student Services Central Office, Room 211, Billingsly Student Center. Additional guidelines to insure the safety and comfort of resident students are in the Residence Hall Handbook which is available from the Director of Residential Life.

Drug and Alcohol Prevention Program

Pursuant to the Drug-Free Schools and Communities Act Amendments of 1989, Missouri Southern State College is required to establish a drug and alcohol prevention program for its students. The College's program is described below. A biennial review of this program will be done to determine its effectiveness, to implement changes to the program if they are needed to ensure that the College's disciplinary sanctions are consistently enforced.

Substance Abuse Policy: Students are prohibited from using alcoholic beverages and illegal drugs on College-owned or controlled property and at College-sponsored or supervised activities. Irresponsible alcohol or other drug use off campus resulting in disorderly conduct on campus also is not acceptable. Any student of Missouri Southern State College found to have manufactured, dispensed, possessed or used a controlled substance in violation of the Substance Abuse Policy of this College will be subject to discipline in accordance with College policy and reported to local, state or federal law enforcement authorities for criminal prosecution. Criminal prosecution for these acts could lead to a conviction and such a conviction could result in a sentence imposing a monetary fine, imprisonment in a state or federal penitentiary or both

Health Risks: Specific serious health risks are associated with the use of illicit drugs and alcohol. Some of the major risks:

Alcohol and other depressants (barbiturates, sedatives and tranquilizers): addiction, accidents as a result of impaired ability and judgment, overdose when used with other depressants, damage to a developing fetus, heart and liver damage.

Marijuana: addiction, panic reaction; impaired short-term memory; increased risk of lung cancer and emphysema, particularly in cigarette smokers; impairment of driving ability.

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Cocaine: addition, heart attack, seizures, lung damage, severe depression, paranoia, psychosis. Similar risks are associated with other stimulants, such as speed and uppers.

Hallucinogens (acid, LSD, PCP, MDMA, etc): unpredictable behavior, emotional instability, violent behavior, organic brain damage in heavy users, convulsions, coma.

Narcotics (heroin, Demeral, morphine, Codeine, etc.): addiction, accidental overdose, risk of hepatitis and AIDS from contaminated needles.

Inhalants (gas, aerosols, glue, nitrites, etc.): loss of consciousness, suffocation, damage to brain and central nervous system, sudden death, nausea and vomiting, nosebleeds, impaired judgment.

Resources: A variety of resources exist for drug or alcohol counseling, treatment or rehabilitation programs. A few are listed inside the front of the *Student Handbook*. For more detailed information concerning these resources and others available from the College and/or community agencies, students may contact the Counseling Center (417-625-9595) or the Student Services Office (417-625-9392). Such referrals will respect individual confidentiality.

A main objective of the drug and alcohol prevention program is to encourage healthy attitudes and behaviors on the part of all students and responsible decisions about alcohol/drug use. Another objective is to provide students in certain high risk groups (freshman, Greeks, athletes, residence hall students, etc.) with specific and upto-date information regarding the long-and-short-term effects of alcohol/drug use. A final objective is to provide students with the necessary skills to help them carry out the decisions they have made in regard to their use or nonuse of alcohol/drugs, and how to effectively handle certain "high pressure" situations.

To meet the above objectives, information and assistance is provided to students in several ways. First, alcohol and drug films are shown and programs conducted in all orientation classes, which are required for all new students. Additional alcohol and drug information is presented in other academic classes, including HPER 103, Lifetime Wellness. Pamphlets about alcohol and drug use are distributed each semester in residence hall rooms and in the Student Center. Special alcohol and drug training is provided annually for residence hall staff and orientation leaders.

The athletic department provides a program for varsity athletes. Special alcohol and drug programs are presented throughout the year. Active drug testing is done. A committee of counselors, teachers and clergy are available to assist varsity athletes.

The Student Services Office, Campus Activities Board and the Residence Hall Association provide alcohol and drug programs throughout the year for all students.

Sexual Harassment Policy

Missouri Southern State College is committed to the principles of equal opportunity and does not discriminate on the basis of race, age, sex, religion, national origin or handicap. The U.S. Equal Employment Opportunity Commission has issued guidelines: It is the policy of Missouri Southern State College that no member of the campus community may sexually harass another individual. Sexual harassment defined as the use of one's authority or power to coerce another into unwanted sexual relations or to punish another for his/

her refusal, or the creation by a member of the college community of an intimidating, hostile or offensive working education environment through repetitive verbal or physical conduct of a sexual nature, shall be a violation.

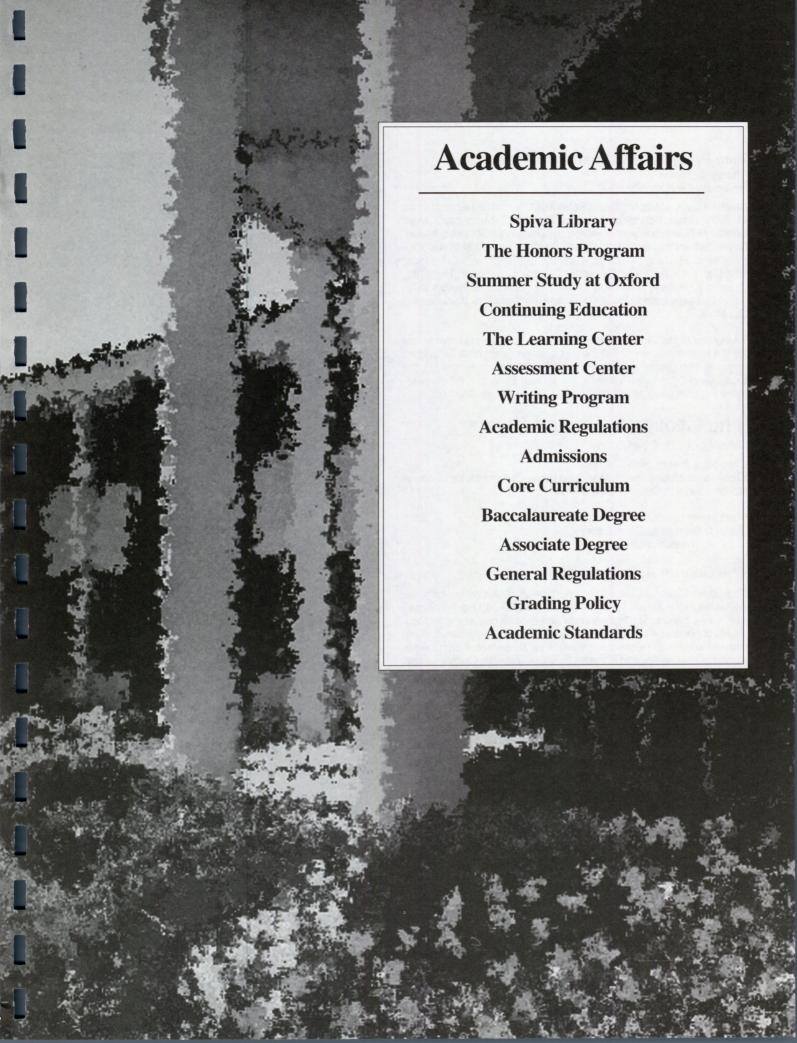
Any student with a sexual harassment complaint may contact the Vice President for Student Services or the Director of Student Life.

Campus Security Act Policies and Procedures

- All campus crimes should be reported immediately to Campus Security. Campus security officers are available on campus 24 hours of every day. The number to call for on-campus personnel is extension 391. Off-campus personnel should call 625-9391 during the weekday office hours of 7:00 a.m.-4:00 p.m. After hours, weekends and holidays, the number is 437-0390. This will contact the security officer on duty directly via cellular phone. Each call will be responded to by a campus security officer
- 2. All academic buildings are locked each evening and during the weekends. One security officer makes nightly rounds, using a computerized security key system. All residence halls, except North Hall are locked at midnight Sunday-Thursday and 2:00 a.m. on Friday and Saturday. Individual keys are issued to each resident student. Another security officer is on duty in the residence hall area from 11:00 p.m. to 7:00 a.m. each day.
- 3. The Security Department personnel are not commissioned law enforcement officers. However, each officer has completed the coursework necessary to meet the state requirements to be commissioned. There is an excellent working relationship between the department and the city and county law enforcement agencies. All employees and students are directed to report all occurrences of any criminal activity to the Campus Security. Campus Security is directed to report all felonies to the Joplin Police Department.
- 4. These policies and procedures are published in the Student Handbook which is distributed to all freshmen students. Each semester during freshman orientation, seminars are given covering date rape, safety tips and security procedures.
- Crime prevention programs are presented each semester by the Campus Activities Board, Student Services and Residence Hall Association. Pamphlets regarding crime prevention are distributed to all resident students and are made available to all students in the Student Center.
- MSSC does not have off-campus student organizations recognized by the institution.
- 7. Crime statistics are available in the Campus Security Office.

Student Identification Cards

The student identification card is produced by the College and issued to all students as a means of personal identification. The College reserves the right to request a student to produce the I.D. card at any time deemed necessary. The student I.D. is a service to students currently enrolled who wish to use college facilities and services. The first student I.D. costs \$2.00; replacement cost for lost cards is \$5.00. Student I.D. cards may be obtained at the Campus Security Office.



Academic Affairs

Vice President for Academic Affairs

Robert C. Brown Hearnes Hall 200, 625-9394

Staff: Ray A. Malzahn, Dean, School of Arts and Sciences; James M. Gray, Dean, School of Business; Edward P. Merryman, Dean, School of Education and Psychology; Donald L. Seneker, Interim Dean, School of Technology; Judy Bastian, Assistant to the Vice President; R. Jerry Williams, Director of Continuing Education; Charles H. Kemp, Head Librarian; Eugene C. Mouser, Registrar; Delores A. Honey, Director of Center for Assessment and Institutional Research; and Myrna Dolence, Coordinator of the Learning Center.

The Office of the Vice President for Academic Affairs is responsible for the administration of the instructional program both on and off campus. The Learning Resources Center, the Honors Program, the Continuing Education Program, the Writing Program, the Assessment Program and all academic units are under its direction.

The George A. Spiva Library

Spiva Library 205, 625-9386

Charles H. Kemp, Head Librarian

Librarians: Robert Black, Mary Lou Dove, Susan Huston, Charles Nodler, Gaye Pate and Edward Wuch.

The Library consists of two units:

- 1. George A. Spiva Library
- 2. The Audio-Visual Center

The George A. Spiva Library

The Spiva Library is the major information resource on campus. Available in the library for student use are 208,000 book volumes and 1,224 periodical titles. A state and federal government documents collection; a law library; and over 500,000 items in microform provide additional reference materials for student research. Additional collections housed in the archives area are the Congressional papers of Gene Taylor, tri-state mining maps, and the papers of the late Dr. Arrell Gibson, a noted western historian.

The collections are housed in an attractive facility that was constructed in 1967. There have been two renovations of the building since then, with a third anticipated in the near future. The staff is composed of seven librarians, 12 support staff members and part-time student staff members.

The teaching function of the library is considered of great importance as befits a college which prizes excellence in the intellectual development of its students. Every effort is made to insure that students learn how to conduct research in the library effectively and to use its resources knowledgeably. Tours of the library are given by librarians and student guides. Workshops, class lectures and additional assistance are provided by librarians. The library staff also teaches individual library patrons how to use information sources and assists them with their needs for research and information.

Modern technology is used heavily in Spiva Library. Interlibrary loan requests are sent and received through a nationwide computer network of libraries. Locations of requested materials can be determined in minutes through the OCLC Network which has a database



of over 23 million records on-line in over 11,000 member libraries. A telefacsimile machine service is used to rapidly send and receive copies of periodical articles. The Library has access through the INTERNET to hundreds of library catalogs. With a MIX card furnished by Spiva Library, MSSC students and faculty can borrow library materials in person at any of the other campuses of the Missouri publicly supported colleges or universities.

All functions of the library are completely automated. Students at home or professors in their offices can determine what materials the library has. A useful feature of the system tells whether a particular book is checked out. To access these functions, the students or professors use the LION, the library's on-line public access card catalog connected to office terminals or home computers with dial-up capability. In addition to the modern OPAC, students and faculty enjoy automated circulation with no-wait checkout of library materials.

The staff provides fast ordering and cataloging of library materials through the automated ordering and cataloging features of the NOTIS system. The state-of-the-art integrated library automation software that is used by Spiva Library is licensed and supported by NOTIS Inc. The compact disk technology has made retrieval of subject matter in periodicals so easy that it has become the preferred method of researching periodical literature for students. The major indexes in the fields of business, education, social science, history, psychology, English, biology, and nursing are available in the CD-ROM format. Newsbank, The Academic Index, The Grolier Encyclopedia and the Oxford English Dictionary are a few of the formerly print only reference materials that are used in the

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CD-ROM format in the Spiva Library. For indexes that are not available in the library, the reference staff can conduct on-line searches through DIALOG or BRS. These information services have several hundred additional databases.

The library has even gone beyond indexes and can furnish the full-text of articles found in the indexes in CD-ROM format for two of the databases. After a student has searched ABI/INFORM or General Periodicals Index, he or she can insert a CD-ROM in the player and either read the full article on the screen or print a copy on the laser printer. With all of these information sources at their disposal, students at Missouri Southern never lack for information for research papers.

The Audio Visual Center

Located on the 4th level of the library with government documents, the AVC is the audio-visual materials component of the Spiva Library. These materials include video and audio tape materials, films, slides, kits and miscellaneous instructional materials. Curriculum textbooks, curriculum guides on children's books which support the teacher training curriculum are housed in this area. Materials in this area are cataloged and made available through the LION. The AVC provides appropriate playback equipment for all of its materials.

The staff provides limited production services such as making overhead transparencies, laminating materials and copying audiotapes. IBM compatible personal computers are connected to a local area network. Using these workstations, students can work on their research with the word processors and databases installed on this LAN. Equipment is available in each school and department, so the equipment available for checkout from the AVC is limited. The equipment includes basic items such as slide projectors, video cassette recorders and monitors, audio cassette recorders, and filmstrip projectors. Helpful staff are stationed in this area to provide assistance with the computers, government documents, or audiovisual materials.

The Honors Program

Webster Hall 137, 625-9686

David L. Ackiss, Director Patricia P. Kluthe, Assistant Director

The Honors Program at Missouri Southern is intended to encourage academic excellence by providing special opportunities and challenges for exceptional students. Features of the program are as follows:

- All full-time students admitted to the Honors Program will receive a four-year renewable scholarship rental fees and student activity fees semesters. Additional scholarship board are available to National Merit Scholarship finalists and semi-finalists and to those who have a cumulative score on the ACT in the 98th or 99th percentile.
- Honors sections of selected Core Curriculum courses are available to Honors Students.
- 3. Other special features include optional accelerated graduation (a three-year program), honors residence hall space, individually enhanced classes tailored to student potential, individualized advising, colloquia, guest speakers, opportunities for sponsored research, exploration of professional and graduate study opportunities and senior research projects.

Recognition is given to Honors Program members who successfully complete the program at Honors Convocation, at graduation and by a notation on their permanent records.

Who Is Eligible?

All students who wish to participate in the Honors Program must be admitted to Missouri Southern State College. Incoming freshmen with a composite score on the Enhanced ACT of 28 or above or with a grade point average of 3.5 or above (on a 4.0 scale) in high school course work, are invited to apply for admission to the program. Two letters of recommendation, from the student's high school principal and from a high school teacher, an essay and an interview are required of applicants.

Students who have already completed no more than 30 hours of course work with a grade point average of 3.5 or above at Southern or any other accredited college or university, also are invited to apply. For application material and further information, contact: Director, Honors Program, Missouri Southern State College, Joplin, MO 64801-1595. Application deadline: April 1.

Summer Study at Oxford

To live and study at historic Christ Church is considered by many to be an experience of a lifetime. Missouri Southern offers an elective summer study program with Oxford, the world's foremost university. This program is in cooperation with Florida State University.

Students will participate in small seminar groups led by Oxford University tutors and live in an atmosphere of Oxford College life as it has survived over the past 700 years. In addition, students will be able to meet with tutors and visiting scholars in an informal atmosphere.

A selected group of students have the opportunity to participate based on their advanced academic standing for hours accumulated and grade point average. Qualified students select courses offered in three week sessions on various subjects. Missouri Southern grants partial scholarships to selected students each year. Honors Program students are given priority consideration in the selection process. Faculty members also are chosen to take part in the program. There is time for students to enjoy the rich heritage of England through formal tours or individual excursions. Even though it is brief, a great opportunity awaits those selected to be a member of this distinguished community of scholars and a participant in the Oxford experience.



30 / Academic Affairs

The Division of Continuing Education

Webster Hall 133, 625-9384

R. Jerry Williams, Director

The Division of Continuing Education embraces the life-long learning concept by providing credit and non-credit courses that supplement the college curriculum. Over 34,000 students have enjoyed learning opportunities in a wide range of academic and non-academic subjects.

The Division also is responsible for distance education programs offering courses off the main campus. Delivery systems include customized training provided at business and industrial sites, video tape correspondence courses and courses offered through the college television broadcast station and microwave system. Numerous seminars and workshops are also offered through the Division of Continuing Education for professional continuing education credit and personal self enrichment. Subjects vary from art workshops to ocular pathology.

Information concerning various programs may be obtained by contacting the Division of Continuing Education located in Webster Hall, Room 133.

The Learning Center

Mansion Classroom Building, 625-9373

Myrna Dolence, Coordinator

Staff: James Brown, Jan Dursky, Eillen Godsey

The Learning Center offers academic assistance to all students attending Missouri Southern. The Center provides a wide range of services:

- 1. computer lab for all students;
- 2. computer assisted programs in reading and writing;
- 3. supplemental instruction in designated classes;
- 4. peer and professional tutoring;
- 5. counseling.

Required classes in composition and reading, designed to meet the needs of underprepared students, are offered through the Center. Additional classes in reading and study skills are available.

The Center for Assessment and Institutional Research

Matthews Hall 321, 625-9696

Delores A. Honey, Director

Missouri Southern is committed to the measuring of outcomes of curricular programs. Both the Core Curriculum and the major will be assessed each year. The relative strength of programs can be judged and actions formulated to ensure that all programs provide the best possible opportunities to students. Student opinionnaires will be given every two years.

The Writing Program

Hearnes Hall 320

Joseph Lambert, Director

Each student is required to complete five writing intensive courses as a part of the baccalaureate degree. The director and a faculty committee advise the Vice President for Academic Affairs on the development and supervision of the program.



Academic Regulations

Hearnes Hall 109, 625-9378

Regular Admission for 1993-94

Students who have participated in a formal educational program within the past five years (high school or college) will be admitted if:

- they rank in the upper one-half of their high school graduating class: OR
- they have a composite score of 17 or above on the Enhanced ACT national admissions test. GED students must have a composite score of 17 or above on the ACT.

Students who do not meet the standards quoted above may seek a waiver of this policy through the Admissions Office Appeal Committee. Students who do not meet regular admissions criteria are ineligible for financial aid.

For 1994-95: Additional Requirements

Missouri Southern has established a High School Core Curriculum as an additional requirement for admission, to be phased in beginning with those who graduate from high school in 1994 and who apply for admission in the summer or the fall of that year.

In addition to the Class Rank and ACT requirements outlined above, students applying for summer or fall admission in 1994 must have completed 10 units from the High School Core Curriculum listed below. The distribution must include at least: 3 units in English, 2 units in mathematics, 2 units in social studies, 1 unit in science.

The High School Core Curriculum:

English, 4 units. All courses must include substantial communication components. One unit may be in speech or debate. Two units emphasizing composition or writing skills are required.

Mathematics, 3 units. The units must include Algebra I, Algebra II, and Geometry. A fourth, higher level mathematics course is strongly recommended.

Social Studies, 3 units. Courses should include United States history, and courses selected from world history, government, geography, and economics.

Science, 2 units. General Science does not count. One unit must include a laboratory. Biology, physics and chemistry are strongly recommended.

Visual/Performing Arts, 1 unit. Fine Arts Courses include such areas as visual arts, music, dance or theatre.

Electives, 3 units. These may be selected from foreign languages (2 units of the same foreign language strongly recommended), world geography, higher level mathematics, additional science, advanced placement courses, or combination of the Core Courses listed above.

Additional information concerning the High School Core Curriculum may be obtained from the Office of Admissions.

Experience has shown that those students who complete the High School Core Curriculum are better prepared to take advantage of the opportunities offered by the college experience, and that they enjoy a greater measure of success in college.

Admissions requirements are subject to change without notice.

The Admissions Office Appeal Committee: The committee will act favorably to the appeal only if they determine the student has the ability to succeed and is appropriately motivated. Specific courses and/or a reduced load may be required. The committee may make one of three decisions: grant admission, grant special (probationary) admission; deny admission.

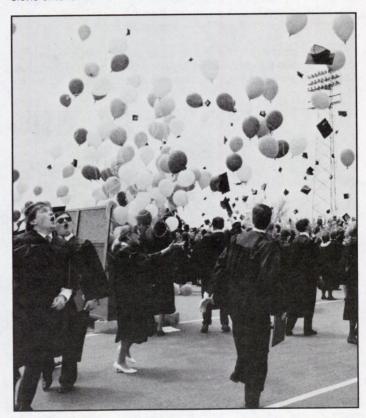
Students With Previous College Experience

Former MSSC Students Former Missouri Southern State College, Jasper County Junior College and Joplin Junior College students must inform the Office of Admissions of their intention to return. When necessary, these students will be required to update their credentials.

Transfer Students Students transferring from another collegiate institution must present credentials listed on page 32, plus: (a) have official transcripts sent to the Director of Admissions by the Registrar from each collegiate institution attended, (b) be eligible to return to their last institution, and (c) pay a \$10 non-refundable application fee. Individuals transferring to Southern who have not taken English or math or are seeking a degree in education must file ACT scores. Transfer students must adhere to the standards for progress toward graduation.

Transfer students must also take the senior year or 30 out of the final 36 hours in residence at Missouri Southern.

Transient Students Students in good standing at other colleges and universities may wish to enroll at Missouri Southern for the purpose of transferring back to their institutions the credit earned. Admission requires completion of the ap plication form, payment of the \$10 non-refundable application fee and a statement of good standing from the authorized college official or Registrar of the student's home college or university. Students wishing to continue course work at Missouri Southern State College must meet admissions criteria.



32/Admission

Non-Traditional Students Students who have not participated in a formal educational program (high school or college) within the last five years may apply to the Admissions Office for a one-year waiver of academic admission requirements. Following that year, the student must supply regular credentials to the Admissions Office.

Special Program Admissions

International Students International Students not citizens of the United States who wish to apply for admission should write the Director of Admissions for the proper application forms and instructions. In addition to the admission credentials required of all students page 32, international students must satisfy these concerns: (a) academic competency, (b) ability to read and speak the English language adequately for college level study and (c) ability to finance the cost of education at Missouri Southern. All applicants from non-English speaking nations must score in the 75th percentile on the Michigan Test for English as a Foreign Language or score 535 on the TOEFL Test. Deadlines for completed application for admission are:

Freshman

Fall Semester–July 1 Spring Semester–November 1 Summer Semester–April 1

Transfer

Fall Semester–July 10 Spring Semester–January 2 Summer Semester–May 25

Students who are citizens of the United States and use English as a second language must pass English language competency. A TOEFL test score of 535 or a score in the 75th percentile on the Michigan Test is required of these students.

Dual Credit The Missouri Department of Elementary and Secondary Education has authorized Missouri Public High Schools and Missouri Public Colleges and Universities to grant Dual Credit to High School students simultaneously enrolled in College and High School. Missouri Southern is pleased to participate in this program. Admission to courses for Dual Credit is selective, and is subject to specific conditions. Additional information may be obtained from the Office of the Vice President for Academic Affairs.

Credit-in-Escrow The credit-in-escrow program consists of college studies for outstanding high school students. They must have the approval and recommendation of their high school principal.



Special A person who has not graduated from high school or who is unable to present regular credentials, may be admitted on a probationary basis. A student admitted under this regulation must meet and maintain the academic standards for progress toward degree and may be required to fulfill other conditions stated at the time of enrollment. Upon successful completion of 59 semester hours the status of the student may be changed from "special" to "regular."

Continuing Education

Off-Campus Extension Regular college curriculum classes frequently are offered off campus. Students who enroll in these classes will generally be enrolled as a "temporary" student.

Off-Campus—Credit The College is committed to offering educational experiences necessary for community betterment. When possible, these classes are structured in such a manner as to allow college credit for the classes. Such students are enrolled as "temporary" students.

Off-Campus—Non-credit Often the College offers classes primarily for entertainment or avocation purposes. Students enrolling in these classes may do so with the permission of instructor.

Credentials Required for Admission Regular Admission

- (1) High School Transcript An official transcript of high school credits must be filed showing that requirements for graduation have been met. A 6th, 7th or 8th semester rank in class must appear on the record. (The College will accept a satisfactory score on the General Educational Development (GED) test in lieu of a high school transcript.)
- (2) Placement Test Missouri Southern participates in the American College Testing Program. Scores from this test battery must be presented, within three years from the time the test was taken, as an admission credential. These tests are administered at nationally approved test centers five times a year. Missouri Southern is a test center.
- (3) Application The application for admission must be completed one week before the first day of enrollment (see college calendar). This includes all credentials required by the Admissions Office.
- (4) Application Fee A fee of \$10 must be included with the application for admission. (This fee is non-refundable and non-applicable to other college fees.)
- (5) Admission for Non-residents of Missouri A non-resident of Missouri is required to submit the same credentials as a resident.
- (6) Veterans Veterans who plan to attend under the G.I. Bill of Rights or Veteran's Orphans Act must present a certificate of eligibility at the time of enrollment.
- (7) Miscellaneous Requirements Additional credentials are required from students whose application credentials raise questions about their acceptability into the student body. While the College makes every effort to give each applicant an opportunity for a college education, it reserves the right to deny admission when the College's ability to meet the need of the student and/or the welfare of the student body are in question. Students who do not attend Missouri Southern within one year after making application must submit new credentials when seeking admission again.

Special Admissions

The Health Sciences (nursing, dental hygiene and radiologic technology) Admission to Missouri Southern does not automatically confer admission to the programs of nursing, dental hygiene, radiologic technology, etc. In addition to meeting the admission requirements for the College, candidates who are interested in these health career programs are required to apply for admission to the department. Application forms may be obtained from the department of nursing office, Kuhn Hall; the dental hygiene department office, Ummel Technology Building; or the radiology department of St. John's Regional Medical Center. Applications should be submitted prior to March 1, preceding the fall semester in which the student wishes to enroll. Each application is reviewed by the Admissions Committee of the respective department. See nursing department page 152, dental hygiene department page 147 or radiologic technology page 152 under affiliated programs for full information on admission and acceptance criteria.

Honors Program This program is intended to encourage academic excellence by providing special opportunities and challenges for exceptional students. Entrance into the program is by invitation. Interested students should ask the Director of Admissions for an Honors Application form.

Temporary In some instances, students may wish to enroll for a limited amount of credit without submitting transcripts of previous academic work. This may be done with the following contingencies: (1) no more than 15 semester hours of credit may be earned in this manner, (2) credit earned while enrolled as a temporary student may not be counted toward a degree or certificate unless the student changes status and (3) work beyond 15 semester hours will not be permitted until such time as all credentials are filed for regular admission.

Return to Learn Adult students can and do face problems and situations unique to their age group. These may include having families to support, needing child care, feeling alone in their age group and being uncertain of their abilities. This program is designed to prepare adult learners to continue their education with confidence. These students will be admitted under the "special" category listed above.

60 Plus This program is designed to serve interested individuals over the age of 59. Community residents may enroll in any course on a space-available basis without providing previous transcripts. Compliance with course prerequisites is necessary and is the students' responsibility. Enrollment takes place after regular registration. 60 Plus students may elect to receive grades and credit for their courses. If students enrolled via 60 Plus later desire to become regular students, they must make application to Missouri Southern for a future semester.

Placement, Examinations, Credits

Resident Credits from Institutions of Equal Standing with Missouri Southern State College

Credits transferred from accredited colleges and universities will be given full value in similar courses whenever possible. The amount of credit given for courses studied in other institutions may not exceed the amount given at Missouri Southern for the same length of time of instruction. Students may not transfer credits to satisfy more than one half of the major course requirements in a department unless the approval of the Vice President for Academic Affairs is obtained.

Transfer of Resident Credits from a Junior College

Credits will be accepted by transfers from a junior college to meet lower division (freshman and sophomore, 100-200 level course) requirements only. A total of 64 semester hours of credit earned at a junior college is the maximum that may be applied toward a baccalaureate degree. After 64 semester hours have been earned by the student, credit should not be taken at a junior college. A minimum of 64 semester hours must be earned in a senior college to obtain the baccalaureate degree from Missouri Southern.

Students who have completed a college transfer curriculum and have been awarded an associate of arts degree from an accredited public two year college in Missouri, prior to enrolling in Missouri Southern, are assumed to have fulfilled the lower division Core Curriculum requirements. Students will be directed immediately into their major area according to their preparation. Transfer students who have not completed the associate of arts as stated above will have their courses evaluated individually.

Transfer students must take a minimum of 30 of the last 36 semester hours for the baccalaureate degree in residence at Missouri Southern.

Advanced Standing Examination

A student whose travel, employment, extensive readings or other unique educational experiences appear to have provided proficiency in a course required in the curriculum equivalent to that ordinarily attained by those taking the course in regular classes, may be granted permission to take an advanced standing examination. This examination may be a subject matter test of the College Level Examination Program (CLEP) or a comprehensive test designed by the department to cover the subject more fully than a regular final examination. In order to receive credit for a departmental examination, a student must have the following qualifications in addition to those listed above:

- (a) be enrolled in college at the time of the examination;
- (b) not have taken an examination over the course within the preceding six months;
- (c) not have credit in a more advanced course in the same field;
- (d) be working toward a degree at Missouri Southern State College;
- (e) have the approval of the head of the department in which the course is offered;
- (f) not use examination to replace a previously earned grade.

After a student has taken a departmental examination, the professor will transmit the grade to the Vice President for Academic Affairs Office. If performance is equated as a "C" grade or above, the Registrar will record the credit.

The College may award credit based on scores from the CLEP General Exam. The applicant for the CLEP General Examination must be a first time college student and may not apply to take the exam until three years after high school graduation.

Students may initiate an examination in the CLEP program by contacting the Director of Counseling and Testing. A student may initiate a departmental test with the head of the department. After the student has taken the CLEP examination, the test will be graded in Princeton, New Jersey. Scores will be sent to both the Vice President for Academic Affairs and the student. If performance is equated as a "C" gradeor above, the Registrar will record the credit.

34 / Degree Requirements

Missouri Southern participates in the CLEP General Examination Program. Entering freshmen who have delayed college entrance by as many as three years since high school graduation may take the CLEP General Examination.

Three to six hours may be awarded in each of the five test areas. Credit will be granted only if the score is 500 or above on mathematics, humanities, natural sciences and social sciences and history. A score of 610 will be required on the English examination. Credit earned by the CLEP examination may not be used to replace a previously earned grade.

International Baccalaureate

Missouri Southern will grant up to 30 semester hours or the equivalent of one full year of college study, to those who have completed study in the International Baccalaureate curriculum in high school. Missouri Southern will grant college credit and advanced placement for International Baccalaureate courses completed at the higher level with a score of four or greater. Students with such backgrounds should contact the Vice President for Academic Affairs through the Admissions Office for a detailed analysis of credits and standing.

Advanced Placement Test (AP)

Missouri Southern participates in the Advanced Placement Program sponsored by the College Entrance Examination Board. Credits are granted for course areas in which a student has completed Advanced Placement Examinations with a score of 3, 4 or 5.

Correspondence, Extension and Television Course Credit

Missouri Southern does not offer courses by correspondence or extension; however, it does accept credit earned in this manner from regionally accredited institutions.

No student will be permitted to apply course work in correspondence or extension toward his or her degree after a total of 12 hours has been completed in correspondence, extension or TV courses. Military Service students who have completed a minimum of one year of active military service may be granted credit to meet the HPER 101 and HPER 103 requirements of the Core Curriculum. Thus, these requirements will be satisfied if the DD214 form is submitted to the Missouri Southern Registrar's Office. Credit may also be granted for specific military schooling as recommended by the American Council of Education. The credit granted will be comparable to courses listed in the bulletin and will carry the grade of "Cr". The veteran must present documentation designating the military course, date and site of the course.

Validation Examinations

If Missouri Southern refuses to accept a student's earned credit in a course because of the method in which the course was taken or because the institution at which the course was taken was not accredited, the student may apply for a validation examination. In order to qualify for a validation examination a student must: (a) be enrolled in college at the time the examination is taken; (b) present the necessary evidence to prove that the course was taken; (c) get approval from the Registrar, the school dean and the head of the department in which the course is offered; and (d) initiate the proceedings within the first eight weeks after entering college.

The student initiates the request for examination at the Registrar's Office. The school dean and the department head will appoint a professor to construct, administer and evaluate the examination. The result is reported to the Registrar who records the grade if it is "C" or above.

The Honors Program

Entering students will be governed by policies clarified on page 31 of this catalog. In addition, students generally will not be admitted to the Honors Program after they have earned 30 credit hours. However, if such a student presents a plan to take the 24 honors hours required to complete the program, that student would be considered by the Honors Committee on an individual basis.

Graduation

- A. Graduation Requirements The responsibility for satisfying all requirements for a degree rests with the student. Advisers, faculty members and administrators offer help to the student in meeting this responsibility.
- B. Time of Graduation A student may complete graduation requirements at the close of any semester. Formal announcement of graduation is made and degrees are conferred at the close of the spring semester. All students completing graduation requirements since the preceding commencement are expected to participate in the commencement activities.
- Placement Services Each degree candidate must register in the Office of Career Planning and Placement.
- D. Degree Candidacy Application Each student must make application for degree candidacy during the semester preceding the last semester in attendance. The application form is available in the office of the Registrar.
- E. Senior Assessment All graduating seniors are required to complete a Core Curriculum and a departmental exit assessment before the baccalaureate degree is awarded. Effective: July 1, 1988.



Core Requirements / 35

Baccalaureate Degree Requirements

- A. Residence The student must have earned 30 out of the final 36 semester hours in residence at Missouri Southern. (This regulation does not apply to three-one affiliation programs.)
- B. Credit Hours At least 128 semester hours of college credit applicable to a baccalaureate degree are required for graduation.
- C. Grade Point Average The following grade point averages are required for graduation:
 - a 2.0 cumulative grade point average for all credit hours attempted;
 - 2. a 2.0 grade point average within the major (exception: selected majors may have other requirements;)
 - 3. at least a 2.0 grade point average for all courses taken in the major department;
 - a grade point average of 2.75 and an ACT composite score of 20 Enhanced as required for the Teacher Education Program.
- D. Upper-Division Hours A minimum of 40 semester hours in upper division courses (those with numbers in the 300's and 400's) must be presented to meet the graduation requirements. Reasonable adjustments are made for threeone affiliation programs.
- E. Writing Intensive Five writing intensive courses will be required of all baccalaureate degree candidates. Six hours must be completed in the freshman year and two of the three remaining courses must be taken at the junior and/or senior level. One upper division course must be taken in the student's major. (Writing Intensive courses may be identified in the "schedule of classes" by a "WI" placed at the end of the course number. Example: Psy 480WI Senior Seminar.) Students transferring to Missouri Southern from another college will fulfill the Writing Intensive requirement as follows:

Total hours at time transfer to Missouri Southern:	Minimum Writing Intensive courses required:
Less than 30 hours	Five courses as outlined above
30 to 59 hours	Three courses, with at least two at the junior/senior level, one of which must be in the major
60 to 89 hours	Two courses at the junior/senior level, one of which must be in the major
90 hours or more	One course in the major

- F. Foreign Language All students expecting to graduate with a bachelor of arts degree must successfully complete 12 hours of the same foreign language as a part of the graduation requirements.
- G. Special Education All students expecting to graduate with a bachelor of science in education degree must successfully complete two hours of Special Education (Educ 302) as a part of graduation requirements.

- H. Computer Literacy All students will receive computer instruction to a level of understanding necessary for them to function as a member of society and to a level of skill sufficient to use the computer for problem solving within their discipline. Department heads will certify the competency of the students in their disciplines.
- Major Field A minimum of one half of the upper division courses that are required for the major must be earned in residence at Missouri Southern.
- J. Assessment All degree candidates are required to participate in College assessment of outcomes activities.
- K. Core Curriculum Requirements Missouri Southern has a Core Curriculum program that contributes toward the development of the whole person, as an individual and as a member of society. All degree candidates must satisfy the following Core Curriculum requirements:

Baccalaureate Degree

Baccala arcate Begree		Credit Hours
Area 1. Basic Requirements*		Required
A. English Compositions		6
Freshman Year (Eng 101 and 102 OR		
achievement in the required compete	ncv	
level can be done in Eng 111 in 3 hou		
B. Communication	110)	3
Comm 100 Oral Communication		
C. Mathematics (110 or above) **		3
D. Physical Education **		3
	2)	
	1)	
Total for Area	,	15 Hours
10001700		10110410
Area 2. Humanities And Fine Arts		
A. Select one		3
Art 110 Art Appreciation (3	3)	
	3)	
	3)	
B. Select one		3
	3)	
	3)	
Eng 281,282 American Literature (3	3)	
C. Select one		3
	3)	
	3)	
	3)	
	3)	
	3)	
Phil 201 Introduction to Philosophy (3	3)	
	3)	
	3)	
	3)	
Total for Area	2	9 Hours
Area 3. Natural Science and Behavioral S	cion	cec*
A. Bio 101 General Biology **	Cicii	4
B. Phy 100 Fundamentals of Physical Scien	nce**	
C. Select one		3
Psy 100 General Psychology**	(3)	607 To 80 7 B
Soc 110 Sociology	(3)	

Total for Area 3

12 Hours

36 / Core Requirements

Area 4. American Cultural Studies* A. Hist 110 U.S. History 1492-1877 AND	3
Hist 120 U.S. History 1877-Present OR	
Hist 320 U.S. History 1877-Present	3
PSc 120 Gov't: U.S., State, Local	3
Econ 180 American Economic System	3
(Majors and minors in business should take E	con 201)
Total for Area 4	12 Hours
Area 5. International Cultural Studies*	

Area 5.	International	Cultural	Studies*

Select one:			3
Hist 130 or 140 Western Civ	(3)		
Geog 211 Regions and Nations	(3)		
Soc 155 Physical Anthropology			
and Archeology	(3)		
Foreign Language	(3)		
GB 310 International Business	(3)		
Soc 342 Comparative Cultures	(3)		
Comm 305 Intercultural Communic	ation	(3)	
Soc 303 The Arab World	(3)		
CJAd 301 International Justice Sys	tems	(3)	
Phil 320 Comparative Religion	(3)		
Eng 385 Continental Novel	(3)		
Total for A	Area 5		3 Ho
	Geog 211 Regions and Nations Soc 155 Physical Anthropology and Archeology Foreign Language GB 310 International Business Soc 342 Comparative Cultures Comm 305 Intercultural Communic Soc 303 The Arab World CJAd 301 International Justice Sys Phil 320 Comparative Religion Eng 385 Continental Novel	Hist 130 or 140 Western Civ (3) Geog 211 Regions and Nations (3) Soc 155 Physical Anthropology and Archeology (3) Foreign Language (3) GB 310 International Business (3) Soc 342 Comparative Cultures (3) Comm 305 Intercultural Communication Soc 303 The Arab World (3) CJAd 301 International Justice Systems Phil 320 Comparative Religion (3)	Hist 130 or 140 Western Civ (3) Geog 211 Regions and Nations (3) Soc 155 Physical Anthropology and Archeology (3) Foreign Language (3) GB 310 International Business (3) Soc 342 Comparative Cultures (3) Comm 305 Intercultural Communication (3) Soc 303 The Arab World (3) CJAd 301 International Justice Systems (3) Phil 320 Comparative Religion (3) Eng 385 Continental Novel (3)

Total Core Curriculum Requirements *Occasionally, selected courses may be substituted for this area. **See degree requirements listed in the Catalog for courses that are substituted for specific majors.

Associate Degree Requirements

Associate of Arts Degree

- A. Credit Hours A minimum of 64 semester hours must be completed.
- Residence The last 15 semester hours must be completed in residence at Missouri Southern.
- C. Grade Point Average Minimum cumulative and major field grade point average must be 2.0.
- **D.** Major Field The student must meet the course requirements of the particular preprofessional program selected. Or, the degree may consist of the general education courses plus additional hours, adding up to 64, as approved by the adviser and the Vice President for Academic Affairs.
- E. Core Curriculum Requirements The degree requires completion of the following Core Curriculum requirements:

Area 1. Basic Requirements*	Credit Hours Required
A. English Composition	6
Freshman year (Eng 101 and Eng 102	
OR achievement in the required	
competency level can be done in	
Eng 111 in 3 hours)	
B. Comm 100 Oral Communication **	3
C. Mathematics (Math 110 or above)**	3
D. Physical Education	3
HPER 103 Lifetime Wellness**	(2)
HPER 101 Physical Activity**	(1)
Total for Area	a 1 15 Hours

Area 2. Humanities and Fine Arts*		
A. Select one		3
Art 110 Art Appreciation	(3)	
Mus 110 Music Appreciation	(3)	
Th 110 Theatre Appreciation	(3)	
B. Select one	(0)	3
Eng 261,262 World Masterpieces	(3)	
Eng 271,272 English Masterpieces	(3)	
Eng 281,282 American Literature C. Select one	(3)	3
Eng 150 Introduction to Literature	(3)	3
Eng 305 Short Story	(3)	
Eng 261,262 World Masterpieces	(3)	
Eng 271,272 English Masterpieces	(3)	
Eng 281,282 American Literature	(3)	
Phil 201 Introduction to Philosophy	(3)	
Art 110 Art Appreciation	(3)	
Mus 110 Music Appreciation	(3)	
Th 110 Theatre Appreciation	(3)	
Foreign Language	(3)	
Total for A	Area 2	9 Hours
Area 3 Natural Sciences*		
Area 3. Natural Sciences* A. Bio 101 General Biology **		4
Area 3. Natural Sciences* A. Bio 101 General Biology ** AND		4
A. Bio 101 General Biology ** AND	cience **	4
A. Bio 101 General Biology **		, ms_
A. Bio 101 General Biology ** AND Phys 100 Fundamentals of Physical S Total for A	Area 3	5
A. Bio 101 General Biology ** AND Phys 100 Fundamentals of Physical S Total for A Area 4. Social and Behavioral Sciences	Area 3	5 9 Hours
A. Bio 101 General Biology ** AND Phys 100 Fundamentals of Physical S Total for A Area 4. Social and Behavioral Sciences A. PSc 120 Gov't: U.S., State, Local	Area 3	5
A. Bio 101 General Biology ** AND Phys 100 Fundamentals of Physical S Total for A Area 4. Social and Behavioral Sciences A. PSc 120 Gov't: U.S., State, Local	Area 3	5 9 Hours
A. Bio 101 General Biology ** AND Phys 100 Fundamentals of Physical S Total for A Area 4. Social and Behavioral Sciences A. PSc 120 Gov't: U.S., State, Local B. Hist 110 U.S. History 1492-1877 OR	Area 3 s*	5 9 Hours
A. Bio 101 General Biology ** AND Phys 100 Fundamentals of Physical S Total for A Area 4. Social and Behavioral Sciences A. PSc 120 Gov't: U.S., State, Local B. Hist 110 U.S. History 1492-1877	Area 3	5 9 Hours
A. Bio 101 General Biology ** AND Phys 100 Fundamentals of Physical S Total for A Area 4. Social and Behavioral Sciences A. PSc 120 Gov't: U.S., State, Local B. Hist 110 U.S. History 1492-1877 OR Hist 120 U.S. History 1877-Present	Area 3 s*	5 9 Hours 3 3
A. Bio 101 General Biology ** AND Phys 100 Fundamentals of Physical S Total for A Area 4. Social and Behavioral Sciences A. PSc 120 Gov't: U.S., State, Local B. Hist 110 U.S. History 1492-1877 OR Hist 120 U.S. History 1877-Present C. Select One: Hist 130 or 140 Western Civ Geog 221 Regions and Nations	(3) (3) (3) (3)	5 9 Hours 3 3
A. Bio 101 General Biology ** AND Phys 100 Fundamentals of Physical S Total for A Area 4. Social and Behavioral Sciences A. PSc 120 Gov't: U.S., State, Local B. Hist 110 U.S. History 1492-1877 OR Hist 120 U.S. History 1877-Present C. Select One: Hist 130 or 140 Western Civ Geog 221 Regions and Nations Soc 155 Phys Anthropology & Archeol	(3) (3) (3) (3) (ogy(3)	5 9 Hours 3 3
A. Bio 101 General Biology ** AND Phys 100 Fundamentals of Physical S Total for A Area 4. Social and Behavioral Sciences A. PSc 120 Gov't: U.S., State, Local B. Hist 110 U.S. History 1492-1877 OR Hist 120 U.S. History 1877-Present C. Select One: Hist 130 or 140 Western Civ Geog 221 Regions and Nations Soc 155 Phys Anthropology & Archeol Soc 110 Sociology	(3) (3) (3) (3) (ogy(3) 3)	5 9 Hours 3 3
A. Bio 101 General Biology ** AND Phys 100 Fundamentals of Physical S Total for A Area 4. Social and Behavioral Sciences A. PSc 120 Gov't: U.S., State, Local B. Hist 110 U.S. History 1492-1877 OR Hist 120 U.S. History 1877-Present C. Select One: Hist 130 or 140 Western Civ Geog 221 Regions and Nations Soc 155 Phys Anthropology & Archeol Soc 110 Sociology Psy 100 General Psychology	(3) (3) (3) (3) (ogy(3) 3) (3)	5 9 Hours 3 3
A. Bio 101 General Biology ** AND Phys 100 Fundamentals of Physical S Total for A Area 4. Social and Behavioral Sciences A. PSc 120 Gov't: U.S., State, Local B. Hist 110 U.S. History 1492-1877 OR Hist 120 U.S. History 1877-Present C. Select One: Hist 130 or 140 Western Civ Geog 221 Regions and Nations Soc 155 Phys Anthropology & Archeol Soc 110 Sociology Psy 100 General Psychology Econ 180 American Economic System	(3) (3) (3) (3) (ogy(3) 3) (3) (3)	5 9 Hours 3 3 3
A. Bio 101 General Biology ** AND Phys 100 Fundamentals of Physical S Total for A Area 4. Social and Behavioral Sciences A. PSc 120 Gov't: U.S., State, Local B. Hist 110 U.S. History 1492-1877 OR Hist 120 U.S. History 1877-Present C. Select One: Hist 130 or 140 Western Civ Geog 221 Regions and Nations Soc 155 Phys Anthropology & Archeol Soc 110 Sociology Psy 100 General Psychology	(3) (3) (3) (3) (ogy(3) 3) (3) (3)	5 9 Hours 3 3

*Occasionally, selected courses may be substituted for this area. **See degree requirements listed in the Catalog for courses that are substituted for specific majors.

Associate of Science Degree

- Credit Hours A minimum of 64 hours must be completed.
- Residence The last 15 semester hours must be completed in residence at Missouri Southern.
- Grade Point Average The minimum cumulative and major field grade point average must be 2.0.
- Major Field The student must meet the course requirements in the particular program of study as approved by an adviser.
- Core Curriculum Requirements The degree requires completion of the Core Curriculum courses as well as those outlined in the student's major field of study. The Core Curriculum required courses are:

Degree Requirements / 37

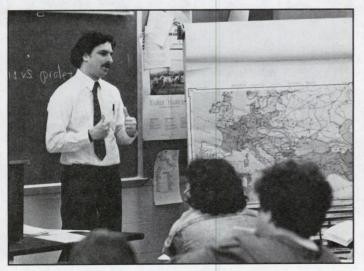
Area 1. Basic Requirements* A. Eng 101 English Composition B. Comm 100 Oral Communication** C. Math 30 (or above)** D. Physical Education ** HPER 103 Lifetime Wellness** HPER 101 Physical Activity** Total for	(2) (1)	Credit Hours Required 3 3 3 3 3 1 12 Hours
Area 2. Humanities and Fine Arts* A. Select One: Art 110 Art Appreciation Mus 110 Music Appreciation Th 110 Theatre Appreciation Any literature except 325 Phil 201 Introduction to Philosophy Total for	(3) (3) (3) (3) (3)	3 3 Hours
Area 3. Natural Science* A. Bio 101 General Biology** B. Phy 100 Fundamentals of Physical S Total for		4 5 4-5 Hours
Area 4. Social and Behavioral Scienc A. Select One: PSc 120 Gov't: U.S., State, Local Hist 110 OR Hist 120 United States I B. Select One: Psy 100 General Psychology Soc 110 Introduction to Sociology Econ 180 American Economic Syste Total for	(3) History(3) (3) (3) em** (3)	3 3 6 Hours
Total Core Curriculum Requirements		25-26 Hours

*Occasionally, selected courses may be substituted for this area.

**See degree requirements listed in the Catalog for courses that are substituted for specific majors.

Core Curriculum courses required for the associate of science degree typically do not completely fulfill the Core Curriculum requirements for the baccalaureate degree.

When the curriculum requirement for an associate of science degree specifies a different course in the discipline than those listed above, the specified course may meet the Core Curriculum requirements for that degree.



A Bachelor of General Studies (B.G.S.) Degree

The B.G.S. degree is a viable alternative for a few individuals who may wish thorough preparation for a career in a specific field. To pursue this option the student should consult with the Registrar regarding the degree.

Academic Minor

Selected departments have developed an academic minor that in conjunction with the major strengthens the students' vocational preparation. See each department for details.

Special Requirements

Physical Education Requirements

All students are required to satisfactorily complete 3 hours of physical education before they are permitted to graduate. Currently, students must complete HPER 101, Physical Activity and HPER 103, Lifetime Wellness.

Students should take these courses during the freshman and sophomore years. Students who meet the following conditions may be exempt from all or part of this requirement:

- A. Students who transfer from colleges where physical education is not taught will be exempt from the requirements as follows: (1) students transferring less than 15 semester hours will not be exempt from any of the requirements; (2) students transferring 15 to 60 semester hours will be exempt from one hour of physical education.
- B. Upon presentation of proper documentation to the Registrar, a veteran may petition for exemption from physical education.

State Legislation Requirement

Sections 10373, 10374, 10374a, 10374b, 10374c (S.C.S. for S.B.4) of the Laws of Missouri, 1947 (6th General Assembly), prescribe that all candidates for a degree issued by the colleges and universities of Missouri must have completed courses of instruction in and "satisfactorily passed an examination on the provisions and principles of the Constitution of the United States and of the State of Missouri, and in American History, including the study of American Institutions."

Students may comply with the law (1) by completing courses embracing the subject matter specified by the law and receiving credit therein, preferably before admission to senior college work, or (2) by certification of the completion of such requirements in another collegiate institution.

All students who have completed the Core Curriculum Requirements meet the requirements of Missouri law. Out-of-state students who do not complete their general education at Missouri Southern must pass a special examination on the Missouri Constitution.

School Laws of Missouri, 1974, require that persons cannot be granted a certificate or license to teach in the public schools of Missouri unless they have satisfactorily completed a course of two or more semester hours in the psychology or education of the exceptional child. This requirement can be met by taking Psy 302.

38 / General Regulations

Commencement Requirements

Degrees are conferred only at scheduled commencement exercises. If a student completes requirements for a degree after a commencement date, the degree will be granted at the next scheduled commencement. A certified statement of completion of graduation requirements may be obtained at the Registrar's Office. No student will be permitted to participate in the commencement exercise whose name does not appear on the commencement program. A student ready for graduation must be present at commencement in order to receive a degree. However, a candidate may graduate in absentia with the permission of the Vice President for Academic Affairs.

General Regulations

Classification of Students

A. By Class:

Freshman: 0-29 Hours Sophomore: 30-59 Hours Junior: 60-89 Hours Senior: 90 and above

Special Admission: See page 32

B. Postgraduate:

Persons having completed a baccalaureate degree but taking courses for the purpose of teacher certification, job preparation and additional degree or personal profit.

C. Full-time:

A student enrolled for 12 or more semester hours.

D. Part-time:

A student enrolled in 11 or less semester hours.

Concurrent Enrollment

A student who is enrolled in residence at Missouri Southern and who desires to earn credit concurrently at another institution or through correspondence extension, advanced standing examination or USAFI examinations must secure advanced approval from the Vice President for Academic Affairs. Exceptions: Armed Forces personnel will be granted 60 days from the date of their first enrollment to establish, through USAFI examinations, advanced standing in subject matter which they mastered while in the Armed Forces.

Second Baccalaureate Degree

A student may receive a second baccalaureate degree after completing the first degree and all the requirements of the second degree. (Exception: Students may not count the professional education courses of the first degree as electives toward the second degree.) The "Residency" does apply.

Transcript Below "C" Average

Students who are accepted with a below "C" transcript and who are below the minimum standards for progress will be placed on Academic Probation. Missouri Southern accepts all grades from any equally accredited institution including both "D's" and "F's."

Maximum Credit Hour Load

To enroll in more than 18 semester hours during a semester or in more than nine hours during a summer session, a student, with the exception of music majors, must obtain prior written permission from the school dean. Music majors may carry as many as 20 semester hours without permission from their dean.

Late Enrollment

No student will be permitted to enroll in a regular semester after the first week of classes and or after the third day of classes in a summer session. Any student enrolling after classes begin will pay a late enrollment fee.

Withdrawal from College

A student who wishes to withdraw will initiate withdrawal in the Office of Counseling and Testing (114 Hearnes Hall). A student who completely withdraws from the College prior to the last week of classes in a regular or summer semester may receive a grade of "W" in all courses in which the student is enrolled. Withdrawal from the College after that date will result in a grade of "F" being recorded for all courses, unless other arrangements are made through the Office of the Registrar. A student who leaves school without officially withdrawing shall receive grades of "F" in all courses.

Dropping Courses

A student may initiate the dropping of a course in the Registrar's Office. Deadlines and grades cited in the College Catalog apply.

Adding Courses

A student may add a course in the Registrar's Office, but only upon the approval of an adviser. A fee of \$5.00 will be charged each time a student changes the program not at the request of the College. No course may be added after the first week of classes in a regular semester and after the third day of classes in the summer session.

Class Attendance

Faculty members keep records of attendance in all regularly scheduled courses at Missouri Southern.

The primary objective of student and professor is the student's attainment of course goals. It is recognized that students who achieve those objectives are normally those who attend class regularly. The professor, when giving a final semester grade, bases his/her evaluation on how well the student has achieved the course goals.



General Regulations / 39

In the event that a student misses any class for ten (10) consecutive working days, the faculty member will report this in writing to the Office of Financial Aid.

Missouri Southern may discontinue the enrollment of any student for non-attendance.

Students who miss a class do so at their own risk and must assume the responsibility for work missed because of class absences. Professors are willing to assist students whose absences are caused by valid illnesses, college approved activities, and extenuating circumstances. The professor may require whatever evidence is needed to support the reason for absence.

The attendance record is significant to the total record and is useful in guidance and counseling. When absences are excessive, the professor will report the fact to Student Services and they will in turn counsel with the student. The total number of student absences in a class will be reported to the Registrar's Office along with the final grade at the end of the semester.

Students should be aware that absence from class invariably has a built-in penalty of lower academic achievement. Excessive absences usually result in failure to achieve the course goals.

Grades and Grading Policies

Grading System

A student's grade is officially recorded by letter. At Missouri Southern, the following grades and their numerical equivalents are used:

Grade		Grade Points
Α	Outstanding	4
В	Above Average	3
C	Average	2
D	Minimum Passing	1
F	Failing	0
W	Withdrawal	

The current policy for the "W" grade is as follows:

- Course withdrawals will be permitted through the first week of the semester without any grade recorded.
- (b) Course withdrawal during the second through the ninth week of the semester will be indicated by a "W" posted to the record.
- (c) Course withdrawals are not permitted after the ninth week of the regular semester (or its equivalent). Exceptions to this policy are infrequent and must be pursued by means of academic petition. A student who stops attending class without officially withdrawing is in jeopardy of receiving an "F" in the course.

Incomplete (I) A grade of "I" may be reported if a student is unable to complete the work of the course within the semester for a valid reason such as illness, death in the family, an emergency, etc. It is not intended as a substitute for an "F" and does not entitle a student to attend the class during a subsequent semester. An incomplete must be made up by the end of the next semester (excluding summers) or it will be converted to an "F" automatically. Both credit and grade points for that course are suspended until the incomplete is converted to either a passing grade or an "F."

Audit (AU) A student may audit a class for no grade and no credit. Acceptable performance, attitude and attendance as determined by the professor are expected. Regular fees and enrollment procedures are required. A student may not change enrollment from audit

to credit nor from credit to audit. An audit means only that a student registered for the course. It does not imply any level of proficiency or knowledge.

Change of Grade

A change is initiated by the faculty member by filing a Change of Grade form with the Registrar. No change of grade is to be made without good cause. Exceptional cases will be reviewed by the (immediate supervisor), school dean and Vice President for Academic Affairs.

Independent Study

Independent study courses are special courses which may be taken by outstanding students at the discretion of the faculty adviser and the appropriate college officials. Students may enroll in independent study courses for a total of three hours on the associate degree and a total of six hours on the baccalaureate degree providing they:

- have completed:
 Associate Degree 30 hours
 Baccalaureate Degree 90 hours
- 2. have a minimum cumulative 3.00 GPA
- have permission of the adviser, department head and the school dean in the area of independent study.

Independent study is designed for the individual who desires to explore a topic more completely than can be done in a regular course offering. Substituting independent study for a regular course is seldom done.

Posting of Grades

College legal counsel advises that the public posting of a student's name and grade, or student number and grade, without the student's approval, is a violation of the Buckley Amendment (Family Educational Rights and Privacy Act of 1974) which does not allow disclosure of recorded data or information without the individual's written consent.

Official Transcript

An official transcript of the student's academic record bears the Registrar's signature and the College seal. Missouri Southern assumes no responsibility for the accuracy of a transcript after it leaves the Registrar's Office.

Up to two weeks must be allowed after the close of a semester for the issuance of an up-to-date transcript. The transcript request must be made in writing. Each student is entitled to two (2) free transcripts. Additional copies cost \$1.00 each. No transcript will be issued unless all bills at Missouri Southern are paid or are current according to agreement with the Business Office.

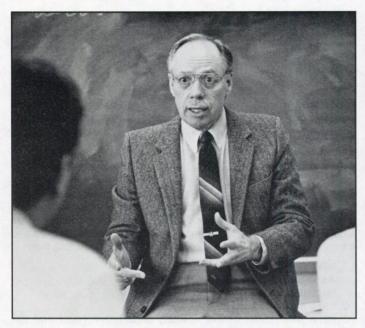
Academic Standards

Good Standing and Eligibility

Students enrolled at Missouri Southern are in good academic standing when they meet the normal progress toward graduation as described below. Those falling below the prescribed norm will be placed on academic probation. Persons failing to achieve normal progress toward graduation during the probationary period are subject to academic suspension.

Exception: Students receiving financial aid. See page 22.

40 / General Regulations



Those students competing in intercollegiate athletics or in organizations representing the College off campus shall be required to satisfy minimum standards of progress, as indicated below, following the completion of the first academic year in order to maintain future eligibility in these programs.

Academic Bankruptcy

A student may petition the Academic Policies Committee to request one semester of academic work be disregarded in computing the academic record. To be eligible for petitioning, a student must be currently enrolled, in good standing and must document the unusual conditions which justify the petition. The petition may be initiated in the Registrar's Office.

Academic Bankruptcy can never be used as a means of obtaining academic honors or athletic eligibility. Academic Bankruptcy will not remove grades from the student's permanent record. It merely allows one semester of recorded work to be eliminated in computing the student's scholastic average.

Developmental Courses

Occasionally, scores obtained from the placement tests indicate a student may not be successful in college. The College reserves the right to require these students to take precollege courses in mathematics, language arts and reading prior to participation in regular college classes.

Standards of Progress Toward Graduation*

A student's cumulative grade point average (GPA) is used to evaluate progress. If the grade point average falls below the minimum standards of progress, the work is considered unsatisfactory.

Progress toward a degree is computed on the following grade point averages:

A. For Associate Degree

Hours Attempted	Grade Point Average
1 - 22 semester hours	1.6
23 - 33 semester hours	1.7
34 - 44 semester hours	1.8
45 - 55 semester hours	1.9
56 & Above	2.0

B. For Baccalaureate Degree

Hours Attempted								
1 - 22 semester hours								
23 - 44 semester hours	 			 		 		 1.6
45 - 66 semester hours	 			 				 1.7
67 - 88 semester hours	 			 		 		 1.8
89 - 110 semester hours	 			 		 		 1.9
111 & Above	 			 				 2.0

*Students who receive financial aid must comply with federal standards. The above may not reflect those standards.

Academic Probation, Suspension and Reinstatement

Each student should consider a grade point average of less than 2.0 as a warning. Those falling below the standards of progress toward graduation will be placed on academic probation. If the grade point average is not raised to the minimum standard of progress during the probationary semester, the student is subject to immediate academic suspension from the College.

A student receiving academic suspension must stay out of Missouri Southern for one semester. Re-entry may be denied by the Vice President for Academic Affairs if the student cannot present evidence that indicates a high probability of academic success.

Repetition of Courses

Students may repeat courses in which grades "F, D, C, or B" have been earned. When a course is repeated, the first grade will not be removed from the record, but the latest grade will be used computing grade point averages.

298-498 Classes

Classes numbered 298 or 498 may not be counted toward Core Curriculum credit.

Honor Roll

An Honors or Dean's List, issued at the end of each semester, contains the names of full-time students who have a 3.75 grade point average or higher with no "I" grade or a grade below "C."

Graduation Honors

In recognition of superior scholarships, the College awards honors to associate degree and baccalaureate degree graduates. Honors listed below are not earned until courses are completed, graded and posted on the students' permanent record.

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Associate Degree - The student must have completed a minimum one half of the hours required for the degree in residence at Missouri Southern State College. The cumulative grade point average required to receive:

First Honors 3.90-Second Honors 3.80-3.89 Third Honors 3.70-3.79

Baccalaureate Degree - Eligibility for any one of the following three honors requires the candidate to study all the junior and senior years at Missouri Southern and earn a minimum of 60 hours of credit:

Summa Cum Laude 3.90-Magna Cum Laude 3.80-3.89 Cum Laude 3.70-3.79

Course Numbers and Levels

Course Numbers:

0 - 99 Applicable toward the associate degree only

100 - 199 Primarily for freshmen 200 - 299 Primarily for sophomores

300 - 399 Primarily for juniors

400 - 499 Primarily for seniors

Normally, courses numbered 100-299 are considered junior or lower division level courses and those numbering 300-499 are senior or upper division level courses. There are more significant distinctions between the sophomore and junior years than within the levels of the lower and upper divisions.

The student should check the catalog description of the course to see whether the second semester of a sequence course makes the first semester a prerequisite.

Freshmen are not allowed to take any course above the 200 level unless qualified by advanced placement tests. The exception is infrequent.

All courses offered are listed in the catalog. Immediately following each course title is a letter abbreviation of the semester in which the course is usually offered. Students and faculty should use this as a guide in considering future enrollment. However, this should not be interpreted as a contract. Missouri Southern reserves the right to deviate from this commitment when enrollment or other factors dictate.

Major or Area of Interest

All students will be required to declare their degree sought, their major (or area of interest), their status (regular or other) and whether they will attend part-time or full-time.

Revised Standards for Veteran's Educational Benefits

The Revised Standards for Veteran's Educational Benefits as adopted by the State Board of Education on February 17, 1977, are available in the Veteran's Affairs Office. Each Veteran should see the veteran counselor or veterans representative regarding these policies.

Any exceptions to the regulations above must receive written approval from the Vice President for Academic Affairs.

Special Policies for Financial Aid Recipients

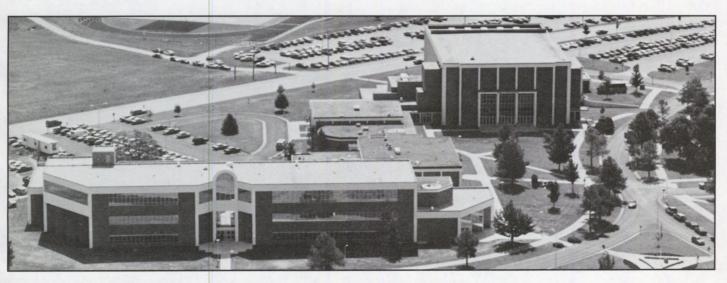
Special policies and regulations governing financial aid recipients are filed in the Financial Aid Office, the Business Office and the Office of the Vice President for Student Services.

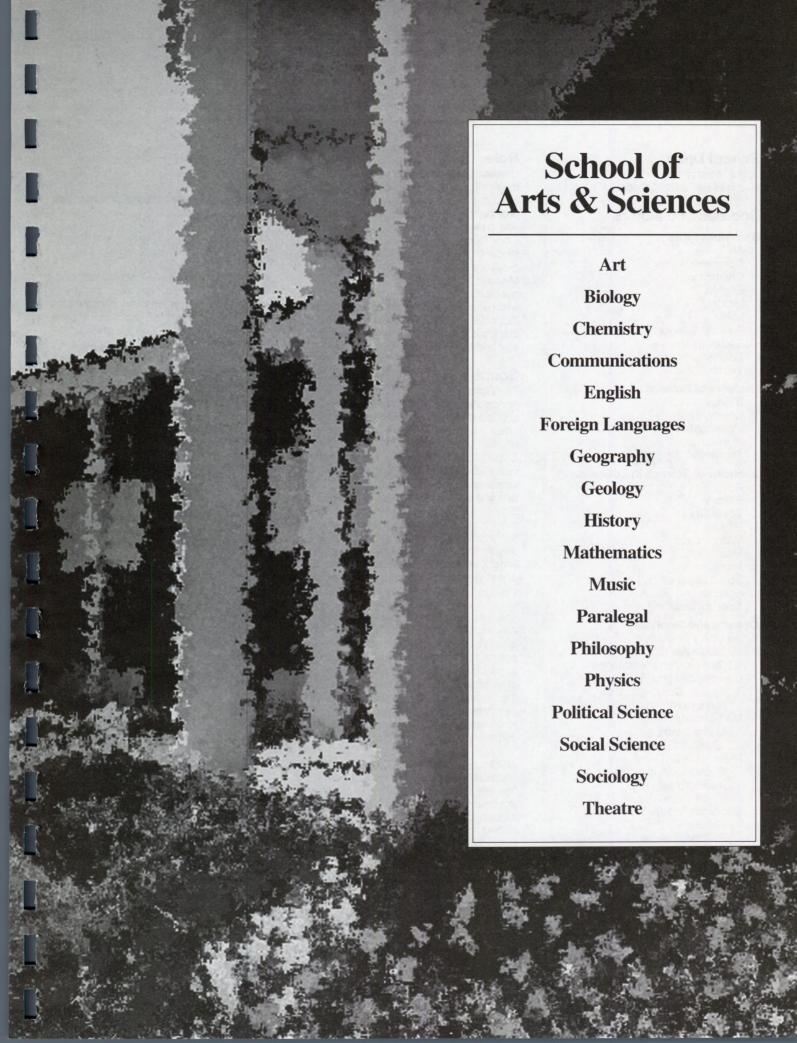
Catalog Time Limit

A candidate for a degree may use, as a basis for degree requirements, the general catalog issued for any year following the date of the candidate's first registration at MSSC provided it is not more than five years prior to the date the degree is to be conferred. The candidate must have been in residence at MSSC during the year of the catalog selected.

Transfer Student: The MSSC catalog in effect at the time of the transfer student's initial enrollment in the sending institution (transfer school), will govern the transfer student's degree requirements. The transfer student must have had continuous enrollment and remain in the same degree program. The catalog used may not be dated more than five years prior to the date the degree is to be conferred. The transfer student must have been enrolled in a previous school during the year of the catalog selected.

The degree requirements in the 1993-95 Catalog became effective June 1, 1993.





School of Arts & Sciences

School Dean

Ray A. Malzahn Hearnes Hall 318, 625-9385

Degrees and Majors

Bachelor of Arts

Art

Communications

Chemistry

English

History

Music

Political Science

Sociology

Spanish

Theatre

Bachelor of Science

Biology

Chemistry

Mathematics

Physics

Sociology

Bachelor of Science in Education

Art

Biology

Chemistry

English

Mathematics

Music

Physics

Social Studies

Spanish

Speech-Theatre

Options and Emphases

Art (B.A.)

Studio Art

Graphic Communications

Communications (B.A.)

Speech Communications

Mass Communications

Mathematics (B.S.)

Mathematics

Computational Mathematics

Music (B.S.E.)

Double Certification

Instrumental

Vocal

Social Studies (B.S.E.)

History

Political Science

Sociology

Minors:

See Departments

Role

Consisting of seven departments and 13 major disciplines, the School of Arts and Sciences has two primary roles. One is to provide the foundation of all higher education called the liberal arts component or Core Curriculum. The other is to educate students for professional careers and for graduate school. The Core Curriculum at Missouri Southern is designed to meet the needs of the individual and of society, needs which include communicating, critical thinking, clarifying values, functioning within social institutions, using science and technology and using the arts.

Scope

The School of Arts and Sciences has three principal responsibilities: teaching, research and creative activities and community service.

Quality teaching, the first responsibility, is essential to sound academic programs. Consequently, teaching is important to liberal arts and is the major role of the faculty. In the School of Arts and Sciences, the faculty strive to educate students both deeply within a discipline and widely across disciplines; deeply, to help them achieve excellence and widely, to help them develop a lifelong habit of self education and thus readily adapt to change.

The second responsibility of the School of Arts and Sciences is scholarly research and creative activity. The aim of scholarly research is both improvement of teaching and advancement of knowledge. The aim of creative activity and performance is to enrich the participant's understanding and proficiency both as a teacher and as an artist and to enhance the cultural opportunities of the community.

The third responsibility of the School of Arts and Sciences, one which is closely related to the first two, is community service as an academic and cultural resource. The School functions as an academic resource by consulting and providing academic expertise to help solve community problems. It functions as a cultural resource by presenting to the public films, arts exhibitions, dramatic productions, musical concerts and recitals.

Art

Art Building 303, 625-9563

Faculty Bray - Head, Christensen, Fowler, Hess, Noblett, Schwieger

Career opportunities available for the qualified bachelor of arts degree graduates are in commercial art, free-lance and private studio lessons. This degree also prepares the graduate to enter an advanced degree program on the masters level in a specific art discipline. Graduates with a bachelor of science in education degree with a major in art are certified through the teacher education program to teach K-12 in the state of Missouri.

Degree requirements in the four art programs - B.A. (studio emphasis); B.A. (graphic communications); B.S.E. (one of two teaching fields); B.S.E. (single teaching field) - are such that it is extremely important that students majoring in art meet with their faculty advisers each semester. Students are responsible for contacting their adviser after completing 21 semester hours in art to make application for their Junior Review. For this review, students are required to submit a representative sampling of their creative work, a record of academic progress and a statement of intent and/or objectives for examination by a committee of the art faculty. Written permission of the Junior Review Committee is required for a student to enroll in Art 490 Senior Exhibit. The committee meets at the beginning of each fall and spring semester. Entering transfer students must make application for the review during their first semester. Application forms and more detailed information are available in the department of art office, 303 Art Building.

Core Curriculum requirement for non-art majors, for one course in Area 2, Humanities and Fine Arts, is fulfilled by Art 110, Art Appreciation.

-		
	or of Arts with a	
Major i		
Emphasi	s I Stud	lio Art
	Semester	Hours
Core Rec	quirements (p.35)	51
	r Literacy Requirement	
	ned by art department)	2-3
	Language (four courses	
in one la		12
Art Requ		53
Art 101 Art 105	Basic Design	3 3 3 3 3
Art 120	Design & Color Theory Beginning Ceramics	3
Art 130	Beginning Drawing	3
Art 211	Beginning Sculpture*	3
Art 205	Beginning Jewelry*	1
OR	20gg cowony	
Art 230	Basic Form*	3
Art 232	Beginning Painting*	3
Art	Art History or Seminar	
	(upper division)	9
Art 312	Beginning Printmaking*	3
Art 490	Senior Exhibit*	9 3 2 18
Electives	es (300 - 400 level courses)	70304
Electives		9-10 128**
*See Prer		120
	clude at least 40 upper c	livision
(300 - 400	level) hours.	110131011
,500 100	iotol, modio.	
Rachel	or of Arts with a	
Major ii	Art	

Emphasis II Graphic Communications

Foreign Language (four courses in

Basic Design

Basic Form*

(upper division)

Life Drawing*

Watercolor*

cations I*

cations II*

cations III*3

Advanced Drawing*

Beginning Printmaking*

Graphic Communi-

Graphic Communi-

Graphic Communi-

Design & Color Theory

Typography and Lettering 3 Art History or Seminar

Beginning Drawing

Beginning Jewelry*

Core Requirements (p.35)
Computer Literacy Requirementdetermined by art department

one language) Art Requirements

Art 101

Art 105

Art 130

Art 205

Art 240

Art 300

Art 310

Art 312

Art 325

Art 350

Art 425

OR Art 230

Art

OR Art 421 Semester Hours

1-3

12

50

3

3

3

3

3

3

3

3

Art 430 Art 450	Advanced Printmaking Graphic Communi-	3
	cations IV*	3
Art 490	Senior Exhibit*	2
Electives*		9-10
Additional	Requirement:	
CJAd 210		3
		128***
**Suggest	ed Elective Courses:	
Art 120	Beginning Ceramics	3
Art 232	Beginning Painting	
Art 205	Beginning Jewerly	3
Art 230	Basic Form	3
Art 211	Beginning Sculpture	3
Art 421	Life Drawing	3
CADD 115 GB 320	Introductory to CADD Business	3
GB 320	Communications	2
CJAd 340	Basic Color Photograph	3 y 3
MM 300	Principles of Marketing	y 3
MM 401	Promotional Strategy	3
	Intro to Micro Use****	3
Comp 115	Programming in	3
Comp 110	BASIC****	3
*See Prere		-
	clude at least 40 upper of	division
(300-400 le	evel) hours	217101011
	s departmental computer	literacy
Salisile	s departmental computer	illeracy

Bachelor of Science in Education with a Major in Art Grades K-12 Certification

requirement (select one).

Plan A One of Two Teaching Fields

	Semester	Hours
Core Requ	uirements (p.35) 51*	48
Art Requir	rements	41
Art 101	Basic Design	3
Art 105	Design & Color Theory	3
Art 120	Beginning Ceramics	3
Art 130	Beginning Drawing	3
Art 200	Arts & Crafts	3
Art 211	Beginning Sculpture**	3
Art 220	Art Education	2
Art 230	Basic Form**	3
Art 232	Beginning Painting**	3
Art 312	Beginning Printmaking**	3
Art	Art History	
	(upper division)	9
Art Elective	es	3
	eaching Field (some field	ds
exceed 30		30
Education	Certification Requireme	ents
(p.115-127)	40-41

^{*}Psy 100 satisfies certification requirments and 3 hours of the Core Curriculum. Area 3C **See Prerequisites included with course descriptions ***(Varies with 2nd field)

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Bachelor of Science in Education with a Major in Art Grades K-12 Certification

Plan B Single Teaching Field

		-
	Semeste	er Hours
Core Requ	uirements (p. 35) 51*	48
Art Requir	rements	49
Art 101	Basic Design	3
Art 105	Design & Color Theory	
OR		
Art 230	Basic Form**	3
Art 120	Beginning Ceramics	3
Art 130	Beginning Drawing	3
Art 200	Arts & Crafts	3
Art 211	Beginning Sculpture**	3
Art 220	Art Education	2
Art 232	Beginning Painting**	3
Art 312	Beginning Printmaking	** 3
Art	Art History	9
Art 490	Senior Exhibit	2
Art	Electives	12
Education	Certification Requirer	nents
(p.115-127)	40-41
	1	37-138

*Psy 100 satisfies certification requirements and 3 hours of the Core Curriculum. Area 3C

Minor in Art

	Semester	Hours
Art 101	Basic Design	3
Art 110	Art Appreciation	
OR	and the second second	
Art	Art History	3
Art 120	Beginning Ceramics	3
Art 130	Beginning Drawing	3
Art 211	Beginning Sculpture*	
OR		
Art 205	Beginning Jewelry*	
OR		
Art 230	Basic Form*	3
Art 232	Beginning Painting*	
OR		
Art 310	Watercolor*	3
Art 312	Beginning Printmaking*	3
		21
*See Prer	equisites included with	course

*See Prerequisites included with course descriptions.

^{**}See Prerequisites included with course descriptions.

46/Art

Suggest	ted Order of Study	bess	Senior Yea			Junior Year		
	The state of the s	1112	1st Semeste	er Art History**	3	1st Semeste Art 110	Art Appreciation	3
			Art Art 490	Senior Exhibit*	2	Art 312	Beginning Printmaking*	3
Bachelor (of Arts		CORE	[Eng 281/282 American Lit]	3	Art 325	Graphic Comm I*	3
Major Cod	e 1002		Art	Electives***	3	Foreign Lang		3
Art Major			CORE	[Econ 180 Amer Econ Sys]	3	Comm 305	Intercultural Comm	
	I: Studio Art		Foreign Lan		3	OR		
Empnasis Freshman Y			r oreign Lan	guage	17	Soc 342	Comparative Cultures	
1st Semester			0.10			OR GB 310	International Business	3
Course		lours	2nd Semest	ter Art History**	3	GD 310	international business	15
Art 101	Basic Design	3	Art Art	Electives***	6			
Art 130	Beginning Drawing	3	Electives	Approved by the adviser***	6	2nd Semest	er	
CORE	[Eng 101 Comp I]	3	Electives	Foreign Language	3	Art	Art History**	3
CORE	[Math 110 Intro to Col Math] 3		1 oreign Language	18	Art 430	Advanced Printmaking*	3
CORE	[Hist 110 U.S. History]	3				Art 350	Graphic Comm II*	3
CORE	[HPER 103 Lifetm Wellness		*See Prerec	quisites		Foreign Lan	guage	3
		17		equired-select from Art 301, 30	02,	CORE	[Soc 110 Intro to Sociology]	3
			303 or 304	Art History				15
2nd Semeste				om 300 or 400 level courses				
Art 105	Design & Color Theory	3				Senior Year		
Art 120	Beginning Ceramics	3	[Departmen	t Recommendations]		1st Semeste		MA
CORE CORE	[Eng 102 Comp II] [Comm 100 Oral Comm]	3				Art	Art History**	3
CORE	[Hist 120 U.S. History]	3				Art 490	Senior Exhibit*	2
CORE	[HPER 101 Physical Activit		Bacheloi	of Arts		Art 425	Graphic Comm III*	3
COME	[TIT ETT TOTT THYSICAL ACTIVIT	16	Major Co	de 1002		CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
			Art Majo			Elective	[MM 300 Prin of Marketing]	3
Sophomore	Year			s II: Graphic		Foreign Lan	iguage	17
1st Semeste				nications				"
Art 205	Beginning Jewelry*		Commu	lications		2nd Semest	ter	
OR			Freshman	Year		Art	Art History**	3
Art 230	Basic Form*	3	1st Semest			Art 450	Graphic Comm IV* ***	3
Art 232	Beginning Painting*	3	Course		Hours	CORE	[Econ 180 Amer Econ Sys]	3
CORE	[Bio 101 General Biology]	4	Art 101	Basic Design	3	Elective	[Bus 320 Bus Comm]	
CORE	[Comp 105 Comp Literacy]		Art 130	Beginning Drawing	3	OR		
Art Electives	approved by the adviser***	3	CORE	[Eng 101 Comp I]	3	Elective	[MM 401 Promo Strategy]*	3
		16	CORE	[Math 110 Intro to Col Math [Hist 110 U.S. History]	3	CJAd 340	Basic Color Photography	3
2nd Semeste	or containessort		CORE	[HPER 103 Lifetm Wellnes		Foreign Lan	nguage	3
Art 110	Art Appreciation	3	CORE	[Psy 120 College Orient]	1			18
Art 211	Beginning Sculpture*	3	COME	[1 by 120 conego chent]	18		The state of the s	
CORE	[Phys 100 Fund of Phys So					* See Prere		20 20
CORE	[Soc 110 Intro to Sociology		2nd Semes	ster		or 304 Art H	quired—select from Art 301, 30	02, 30
Art	Electives***	3	Art 105	Design & Color Theory	3		departmental requirement for	a com
		17	CJAd 210	Basic Photography	3		ation course.	u con
			CORE	[Eng 102 Comp II]	3		it Recommendations]	
Junior Year			CORE	[Comm 100 Oral Comm]	3	[
1st Semeste	er		CORE	[Hist 120 U.S. History]	3			
Foreign Lan		3	CORE	[HPER 101 Physical Activit		Bachelor	of Science in Educati	on
CORE	[Mus 110 Music Apprec]				16	Major Co		011
OR	[T] 440 Th		Sophomor	o Voor				
CORE	[Th 110 Theatre Apprec]	3	1st Semes				r (Plan B)	
Comm 305	Intercultural Comm		Art 205	Beginning Jewelry*			eaching Field	
OR Soc 342	Comparative Cultures		OR	beginning dewelly		Grades k	(-12 Certification	
OR 342	Comparative Cultures		Art 320	Basic Form*	3	Freshman	Voor	
GB 310	International Business	3	Art 240	Typography & Lettering	3	1st Semest		
Art	Electives***	6	Elective	[GB 105 Typewriting]	3	Course		Hours
Alt	Liectives	15	CORE	[Bio 101 General Biology]	4	Educ 100	Orientation to Educ I	1
			CORE	[Eng 271/272 English Lit]	3	Psy 100	General Psychology	3
2nd Semest	ter				16	Art 101	Basic Design	3
Art	Art History**	3				CORE	[Eng 101 Comp II]	3
Art 312	Beginning Printmaking*	3	2nd Semes			CORE	[Math 110 Intro to Col Math	
Foreign Lan	iguage	3	Art 300	Advanced Drawing*		CORE	[HPER 103 Lifetm Wellness	-
CORE	[PSc 120 Gov't: U.S./Sta/Loc]		OR			CORE	[Psy 120 College Orient]	1
Art	Elective***	3	Art 412	Life Drawing*	3			16
		15	Art 310	Watercolor*	3			
			Elective	[Art 232 Beg Painting]*				
			OR	[Art 211 Ban Contains 1	0			
			Elective CORE	[Art 211 Beg Sculpture]* [Phys 100 Phys Sci]	3			
			CORE	[Eng 281/282 American Lit	5			
			OUNL	Leng 20 1/202 American Lit	17			

2nd Semester	
Art 110 Art Appreciation	3
Art 130 Beginning Drawing	3
Art 105 Design & Color Theory	
OR	
Art 230 Basic Form*	3
CORE [Comm 100 Oral Comm]	3
CORE [Eng 102 Comp II]	3
CORE [HPER 101 Physical Activity	ty] 1
Psy 305 Developmental Psychology	/ 3
	19
Sophomore Year	
1st Semester	
Take C-Base test.	
Educ 200 Orientation to Educ II	1
Art 200 Arts & Crafts	3
Art 220 Art Education	2
Art Elective	3
CORE [Bio 101 General Biology]	4
CORE [Hist 110 U.S. History]	3
CORE [PSc 120 Gov't: U.S./Sta/Loc]	3
	19
2nd Semester	
Apply for admission to Teacher Education	n.
Educ/Psy 302 The Exceptional Child	2
Educ 401 Computer Software***	2
If computer literacy requirement is not	
met in the specialty department.	
Art 211 Beginning Sculpture*	3
Art 232 Beginning Painting*	3
CORE [Eng 281/282 American Lit	1000
CORE [Phys 100 Fund of Phys So	
[I Hyd Too I und of I Hyd oc	18
	.0
Junior Year	37
1st Semester	
Pass media competencies.	
	2
Psy 310 Educational Psychology	2 4
Psy 310 Educational Psychology Educ 329 Ped Theo Meth & Prac	4
Psy 310 Educational Psychology Educ 329 Ped Theo Meth & Prac Educ 321 Microteaching	4 2
Psy 310 Educational Psychology Educ 329 Ped Theo Meth & Prac Educ 321 Microteaching Educ 423 Classroom Management	4
Psy 310 Educational Psychology Educ 329 Ped Theo Meth & Prac Educ 321 Microteaching Educ 423 Classroom Management Note: See Ed 420 below****	4 2 2
Psy 310 Educational Psychology Educ 329 Ped Theo Meth & Prac Educ 321 Microteaching Educ 423 Classroom Management Note: See Ed 420 below**** Art History**	4 2
Psy 310 Educational Psychology Educ 329 Ped Theo Meth & Prac Educ 321 Microteaching Educ 423 Classroom Management Note: See Ed 420 below**** Art Art History** Comm 305 Intercultural Comm	4 2 2
Psy 310 Educational Psychology Educ 329 Ped Theo Meth & Prac Educ 321 Microteaching Educ 423 Classroom Management Note: See Ed 420 below**** Art Art History** Comm 305 Intercultural Comm OR	4 2 2
Psy 310 Educational Psychology Educ 329 Ped Theo Meth & Prac Educ 321 Microteaching Educ 423 Classroom Management Note: See Ed 420 below**** Art History** Comm 305 OR Soc 342 Comparative Cultures	4 2 2
Psy 310 Educational Psychology Educ 329 Ped Theo Meth & Prac Educ 321 Microteaching Educ 423 Classroom Management Note: See Ed 420 below**** Art Art History** Comm 305 OR Soc 342 Comparative Cultures OR	4 2 2 3
Psy 310 Educational Psychology Educ 329 Ped Theo Meth & Prac Educ 321 Microteaching Educ 423 Classroom Management Note: See Ed 420 below**** Art Art History** Comm 305 OR Soc 342 Comparative Cultures	3
Psy 310 Educational Psychology Educ 329 Ped Theo Meth & Prac Educ 321 Microteaching Educ 423 Classroom Management Note: See Ed 420 below**** Art Art History** Comm 305 OR Soc 342 Comparative Cultures OR	4 2 2 3
Psy 310 Educational Psychology Educ 329 Ped Theo Meth & Prac Microteaching Educ 423 Classroom Management Note: See Ed 420 below**** Art Art History** Comm 305 OR Soc 342 Comparative Cultures OR GB 310 International Business	3
Psy 310 Educational Psychology Educ 329 Ped Theo Meth & Prac Educ 321 Microteaching Educ 423 Classroom Management Note: See Ed 420 below**** Art Art History** Comm 305 Intercultural Comm OR Soc 342 Comparative Cultures OR GB 310 International Business 2nd Semester	3 3 16
Psy 310 Educational Psychology Educ 329 Ped Theo Meth & Prac Educ 321 Microteaching Educ 423 Classroom Management Note: See Ed 420 below**** Art Art History** Comm 305 Intercultural Comm OR Soc 342 Comparative Cultures OR GB 310 International Business 2nd Semester Educ 422 Tch Reading in the Sec Sci	4 2 2 3 16
Psy 310 Educational Psychology Educ 329 Ped Theo Meth & Prac Educ 321 Microteaching Educ 423 Classroom Management Note: See Ed 420 below**** Art Art History** Comm 305 Intercultural Comm OR Soc 342 Comparative Cultures OR GB 310 International Business 2nd Semester Educ 422 Tch Reading in the Sec Sci Art 120 Beginning Ceramics	4 2 2 3 16
Psy 310 Educational Psychology Educ 329 Ped Theo Meth & Prac Educ 321 Microteaching Educ 423 Classroom Management Note: See Ed 420 below**** Art History** Comm 305 Intercultural Comm OR Soc 342 Comparative Cultures OR GB 310 International Business 2nd Semester Educ 422 Tch Reading in the Sec Sci Art 120 Beginning Ceramics Art History**	4 2 2 3 16
Psy 310 Educational Psychology Educ 329 Ped Theo Meth & Prac Educ 321 Microteaching Educ 423 Classroom Management Note: See Ed 420 below**** Art Art History** Comm 305 Intercultural Comm OR Soc 342 Comparative Cultures OR GB 310 International Business 2nd Semester Educ 422 Tch Reading in the Sec Scl Art 120 Beginning Ceramics Art Art History** Art 312 Beginning Printmaking*	4 2 2 3 16
Psy 310 Educational Psychology Educ 329 Ped Theo Meth & Prac Educ 321 Microteaching Educ 423 Classroom Management Note: See Ed 420 below**** Art Art History** Comm 305 Intercultural Comm OR Soc 342 Comparative Cultures OR GB 310 International Business 2nd Semester Educ 422 Tch Reading in the Sec Sci Art 120 Beginning Ceramics Art Art History** Art 312 Beginning Printmaking* Art Elective	4 2 2 3 16 16
Psy 310 Educational Psychology Educ 329 Ped Theo Meth & Prac Educ 321 Microteaching Educ 423 Classroom Management Note: See Ed 420 below**** Art Art History** Comm 305 Intercultural Comm OR Soc 342 Comparative Cultures OR GB 310 International Business 2nd Semester Educ 422 Tch Reading in the Sec Scl Art 120 Beginning Ceramics Art Art History** Art 312 Beginning Printmaking*	4 2 2 3 3 16 n 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Psy 310 Educational Psychology Educ 329 Ped Theo Meth & Prac Educ 321 Microteaching Educ 423 Classroom Management Note: See Ed 420 below**** Art Art History** Comm 305 Intercultural Comm OR Soc 342 Comparative Cultures OR GB 310 International Business 2nd Semester Educ 422 Tch Reading in the Sec Sci Art 120 Beginning Ceramics Art Art History** Art 312 Beginning Printmaking* Art Elective	4 2 2 3 16 16
Psy 310 Educational Psychology Educ 329 Ped Theo Meth & Prac Educ 321 Microteaching Educ 423 Classroom Management Note: See Ed 420 below**** Art Art History** Comm 305 Intercultural Comm OR Soc 342 Comparative Cultures OR GB 310 International Business 2nd Semester Educ 422 Tch Reading in the Sec Scl Art 120 Beginning Ceramics Art Art History** Art 312 Beginning Printmaking* Art Elective CORE [Econ 180 Amer Econ Sys]	4 2 2 3 3 16 n 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Psy 310 Educational Psychology Educ 329 Ped Theo Meth & Prac Educ 321 Microteaching Educ 423 Classroom Management Note: See Ed 420 below**** Art Art History** Comm 305 Intercultural Comm OR Soc 342 Comparative Cultures OR GB 310 International Business 2nd Semester Educ 422 Tch Reading in the Sec Sol Art 120 Beginning Ceramics Art Art History** Art 312 Beginning Printmaking* Art Elective CORE [Econ 180 Amer Econ Sys]	4 2 2 3 3 16 n 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Psy 310 Educational Psychology Educ 329 Ped Theo Meth & Prac Educ 321 Microteaching Educ 423 Classroom Management Note: See Ed 420 below**** Art Art History** Comm 305 Intercultural Comm OR Soc 342 Comparative Cultures OR GB 310 International Business 2nd Semester Educ 422 Tch Reading in the Sec Sci Art 120 Beginning Ceramics Art Art History** Art 312 Beginning Printmaking* Art Elective CORE [Econ 180 Amer Econ Sys] Senior Year 1st Semester	4 2 2 3 3 16 h 2 3 3 3 3 3 17
Psy 310 Educational Psychology Educ 329 Ped Theo Meth & Prac Educ 321 Microteaching Educ 423 Classroom Management Note: See Ed 420 below**** Art Art History** Comm 305 Intercultural Comm OR Soc 342 Comparative Cultures OR GB 310 International Business 2nd Semester Educ 422 Tch Reading in the Sec Sci Art 120 Beginning Ceramics Art Art History** Art 312 Beginning Printmaking* Art Elective CORE [Econ 180 Amer Econ Sys] Senior Year 1st Semester Apply for student teaching. All course wool	4 2 2 3 3 16 n 2 3 3 3 3 3 17 rk mus
Psy 310 Educational Psychology Educ 329 Ped Theo Meth & Prac Educ 321 Microteaching Educ 423 Classroom Management Note: See Ed 420 below**** Art Art History** Comm 305 Intercultural Comm OR Soc 342 Comparative Cultures OR GB 310 International Business 2nd Semester Educ 422 Tch Reading in the Sec Sci Art 120 Beginning Ceramics Art Art History** Art 312 Beginning Printmaking* Art Elective CORE [Econ 180 Amer Econ Sys] Senior Year 1st Semester Apply for student teaching. All course woll be completed except for professional see	4 2 2 3 3 16 n 2 3 3 3 3 3 17 rk mus
Psy 310 Educational Psychology Educ 329 Ped Theo Meth & Prac Educ 321 Microteaching Educ 423 Classroom Management Note: See Ed 420 below**** Art Art History** Comm 305 Intercultural Comm OR Soc 342 Comparative Cultures OR GB 310 International Business 2nd Semester Educ 422 Tch Reading in the Sec Sci Art 120 Beginning Ceramics Art Art History** Art 312 Beginning Printmaking* Art Elective CORE [Econ 180 Amer Econ Sys] Senior Year 1st Semester Apply for student teaching. All course won be completed except for professional secourses.	4 2 2 3 3 16 n 2 3 3 3 3 3 17 rk mustemester
Psy 310 Educational Psychology Educ 329 Ped Theo Meth & Prac Educ 321 Microteaching Educ 423 Classroom Management Note: See Ed 420 below**** Art Art History** Comm 305 Intercultural Comm OR Soc 342 Comparative Cultures OR GB 310 International Business 2nd Semester Educ 422 Tch Reading in the Sec Sci Art 120 Beginning Ceramics Art Art History** Art 312 Beginning Printmaking* Art Elective CORE [Econ 180 Amer Econ Sys] Senior Year 1st Semester Apply for student teaching. All course won be completed except for professional see	4 2 2 3 3 16 n 2 3 3 3 3 3 17 rk mus

[Eng 271/272 English Lit]

[Hist 120 U.S. History]

3

3

Art

CORE

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	2 2		
Childai issues	2		
India Cond Day (8)			
indivi Curri Dev (2)			
Intro to Counseling**** (3)		
the country (-,		
Meas & Eval (2)	2-3		
	8		
	16-17		
	302.30		
	, , , ,		
	for a		
	n the		
or to student teaching.			
al Recommendations]			
After accumulating 21 hrs. in art, students mus			
	uisites red—select from Art 301, story epartmental requirement folication course. t night only. Must be take or to student teaching. al Recommendations]		

their adviser.

Consult catalog for requirement for Plan A (Art

make application for their Junior Review via

instruction/certification for one of two teaching fields).

For additional information contact:

Mr. Jim Bray

Office: Art Building 303 Phone: 625-9563

Biology

Reynolds Hall 210, 625-9376

Faculty Messick - Head, Adams, Gibson, Jackson, Lawson, Prentice, Schlink, Stebbins, Tillman

Biology, biology education and environmental health technology majors take a required core of fundamental courses. Requirements to complete these majors allow students to specialize and prepare for graduate school, professional school or specific careers. Support courses in mathematics and the physical sciences supplement courses in the major.

The biology department offers Bio 101, General Biology, to satisfy the Core Curriculum requirement of a biological science course with a laboratory. Bio 121, General Zoology, satisfies the biological science requirement for students in nursing and certain other majors.

Bachelor of Science with a Major in Biology

		345			
	Semester Hours				
	uirements (p. 35) 51*	39			
	Literacy Requirement				
	d by biology department				
Biology R	equirements	40			
Bio 101	General Biology	4			
Bio 112	Botanical Survey**	3			
Bio 122	Zoological Survey**	3			
Bio 210	Molecular & Cellular				
	Biology**	4			
Bio 231	General & Medical				
	Microbiology**	5			
Bio 305	Genetics**	4			
Bio 490	Seminar**	1			
Bio	Upper Division Botany				
	Elective**	3-4			
Bio	Upper Division Zoology	Strain Park			
	Elective**	1-5			
Bio	Upper Division	0			
	Environmental Elective**	4			
Bio		3-5			
	g Requirements	25			
Math 140	Algebra and Trig**				
OR	Augebra and Trig				
Math 150	Calculus with Analytic				
Width 100	Geometry I**	5			
Chem 101	General Chemistry I**	5			
Chem 102	General Chemistry II**	5			
Chem 300	Intro to Modern Organic	3			
Chem 300	Chemistry**				
OR	Chemistry				
Chem 301	Organic Chemistry I**	5			
Phys 151	Elem College Physics I**	5			
Electives		11 22			
Liectives		21-22 28***			
*Poquired	courses in hickory cham				

*Required courses in biology, chemistry, mathematics and physics satisfy major requirements and 12 hours of the Core Curriculum.

**See Prerequisites

***Must include at least 40 upper division (300 - 400 level) hrs.

Biology majors satisfy the Writing Intensive (WI) requirement by completing Eng 101 and 102 (or their equivalent) and three WI classes. Two of the three must be upper division and at least one of the two must be in the major.

Preprofessional students should take Chem 302 and Phys 152. Preveterinary medicine majors must complete Bio 261 Animal Nutrition and Chem 351 Biochemistry.

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Bachelor of Science in Education with a Major in Biology

Grades 7-12 Certification
Plan A One of Two Teaching Fields
See: Minors-Biology Education

Bachelor of Science in Education with a Major in Biology

Grades 7-12 Certification
Plan B Single Teaching Field

	Semester H	lours
Core Requ	uirements (p. 35) 51*	36
	Literacy Requirement -	
determine	d by biology department	2-3
Biology R	equirements	35
Bio 101	General Biology	4
Bio 112	Botanical Survey**	3
Bio 122	Zoological Survey**	3
Bio 231	General & Medical	
	Microbiology**	5
Bio 305	Genetics**	4
Bio 306	Human Physiology	
	and Anatomy**	5
Bio	Upper Division Biology	
Electives	(Bio 499 Problems in Bio	logy
	2-4 hrs. and Bio 312 Env	iron
	mental Biology or Bio 40	2
	Ecology or Bio 481 Aqua	
	Ecology 4 hrs. are requir	
	for certification)	11
0		20 00

	for certification)	11
Supporting	Requirements	32-33
Math 140	Algebra and Trig**	5
Chem 101	General Chemistry I**	5
Chem 102	General Chemistry II**	5
Chem 300	Intro to Modern	
	Organic Chemistry**	
OR		
Chem 301	Organic Chemistry I**	5
Phys 151	Elem College Physics I	** 5
Geol 110	Intro to Geology (5)	1
OR		
Geol 300	Environmental	
	Geology (4)	5-4
Phys 180	Intro to Meteorology	3

*Required courses in biology, chemistry, mathematics, physics and psychology satisfy major requirements and 15 hrs. of the Core Curriculum.

Education Certification Requirements

39-41

144-148

**See Prerequisites

(p. 115-127)

Biology majors satisfy the Writing Intensive (WI) requirement by completing Eng 101 and 102 (or their equivalent) and three WI classes. Two of the three must be upper division and at least one of the two must be in the major.

Environmental Health Technology

See page 148.

Minors in Biology

Minor in Biology (botany-horticulture emphasis)

	Semester	Hours
Chem 100	Introductory Chemistry	5
Bio 101	General Biology	4
Bio 112	Botanical Survey*	3
Bio 316	Economic Botany*	3
Bio 271	Prin of Plant Propagatio	n*3
Bio 440	Plant Pathology*	4
Bio 322	Taxonomy of Flowering	
	Plants*	4
Bio 332	Intro to Entomology*	3
Bio 499	Problems in Biology (1-	3)*
OR		1000
Bio 450	Internship in	
	Biology (1-8)*	1-8 30-37

Minor in Biology (zoology-health science emphasis)

Bio 101	General Biology	4
Bio 122	Zoological Survey*	3
Bio 331	Comparative Anatomy'	5
Bio 431	Animal Physiology*	5
Bio 433 OR	Histology (4)*	
Bio 462	Embryology (5)*	4-5
Bio 422 OR	Invertebrate Zoology (5	5)*
Bio 361	Parasitology (4)*	4-5
Bio 499	Problems in Biology*	1-3

Minor in Biology (environmental health emphasis)

Bio 101	General Biology	4
Bio 231	General and Medical	
	Microbiology*	5
Bio 312	Environmental Biology*	
OR		
Bio 370	Environmental Health*	4
Bio 499	Problems in Biology (1-	3)*
AND/OR		
Bio 450	Internship in	
	Biology (1-8)*	1-8
Upper Divis	sion Biology or Environ-	
	mental Health Electives	7-9

21-30

Minor in Biology (biology education) Grades 7-9 Certification

Bio 101	General Biology	4
Bio 112	Botanical Survey*	3
Bio 122	Zoological Survey*	3
Bio 231	General and Medical	
	Microbiology*	5
Bio 305	Genetics*	4
Bio 306	Human Physiology	
	and Anatomy*	5
Bio 499	Problems in Biology*	2
		26

Completion of the biology education minor plus the following courses will qualify the student for certification in biology for grades 7-12 and is Plan A for the bachelor of science in education:

Math 140 Chem 101	Algebra and Trig* General Chemistry I*	5 5
Phys 151	Elem College Physics I'	5
Bio 312 OR	Environmental Biology*	
Bio 402 OR	General Ecology*	
Bio 481	Aquatic Ecology*	4
Geol 110	Intro to Geology (5)	
OR		
Geol 300	Environmental	
	Geology (4)	4-5
Phys 180	Intro to Meteorology	
	0,	26-27

*See prerequisites.

Biology majors satisfy the Writing Intensive (WI) requirement by completing Eng 101 and 102 (or their equivalent) and three WI classes. Two of the three must be upper division and at least one of the two must be in the major.

Suggested Order of Study

Bachelor of Science Major Code 0401 Biology Major

Freshman Year

1st Semes	ter	
Course		Hours
Bio 101	General Biology	4
CORE	[Eng 101 Comp I]	3
CORE	[HPER 101 Physical Activity	y] 1
CORE	[Hist 110 U.S. History]	3
CORE	[Humanities and Fine Arts]	3
Psy 120	College Orientation	1
		15

2nd Semeste	er	Bachelor	of Science in Educati	on	2nd Semeste		20)
Bio 122	Zoological Survey (Bio 101) 3	Major Coo	le 0840		Bio 402	General Ecology (Bio 112, 12	22)
Math 140	Algebra and Trig 5		lajor (Plan B)		OR Bio 481	Aquatic Ecology	4
CORE	[Eng 102 Comp II] 3		-12 Certification		Bio 461	Electives	5
CORE	[Comm 100 Oral Comm] 3		aching Field		CORE		3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]3	Silligie le	acining Field		CORE	[Hist 320 U.S. 1877-Present]	
		Freshman Y			Educ 422	Tchng Rdng in Sec School	
Sophomore	Vear	1st Semeste				1	7
1st Semeste		Course		Hours			
Bio 12	Botanical Survey (Bio 101) 3	Bio 101	General Biology	3	Senior Year		
Bio 231	Gen & Med Micro (Bio 101) 5	CORE	[Eng 101 Comp I] [Hist 110 U.S. 1877-Pres]	3	1st Semeste		
Chem 101	Gen Chemistry I (Math 140) 5	Educ 100	Orientation to Education	1	Apply for stu	dent teaching. All course work d except for Professional Sem	octor
CORE	[Econ 180 Amer Econ Sys] 3	Psy 100	General Psychology	3	courses.	u except for Froiessional Sem	CSICI
	16	CORE	[Comm 100 Oral Comm]	3	Bio 306	Human Physiology & Anatom	V
Ond Compat		Psy 120	College Orientation	1	Dio coc	(Bio 121 or consent)	5
2nd Semester Bio 305	Genetics (Bio 101) 4			18	Bio 499	Problems in Biology	2
Bio 210	Molecular & Cellular Bio				Bio	Electives	5
DIO 210	(Bio 112, 122, Chem 102) 4	2nd Semest		2	CORE	[,	3
Chem 102	Gen Chem II (Chem 101) 5	Bio 122	Zoology Survey (Bio 101) [Eng 102 Comp II]	3	CORE	L	3
Bio 303	Comp App in Bio (consent)	CORE	[Humanities and Fine Arts]				8
OR		Math 140	Algebra & Trig	5	and Coment	or the second se	
Approved co	omputing course 2-3	Psy 301	Adolescent Psychology	3	2nd Semest Educ 333	Tching Sci in Sec Sch	3
	15-16			17	Educ 333	Foundations of Education	2
lumies Ver-					Educ 432	Critical Issues	2
Junior Year		Sophomore			Select One:	healt they are referred by the con-	u air
1st Semeste Bio 331	Compar Verte Anat (Bio 122)5	1st Semeste			Educ 412	Indivi Curr Development (2)	
Chem 301	Org Chemistry I (Chem 102) 5	Take C-Bas		2	OR		
Phys 151	Elem Col Phys I (Math 140) 5	Bio 112 Chem 101	Botanical Survey (Bio 101) Gen Chem I	3	Educ 420	Intro to Counseling* (3)	
CORE	[International Cultural Stu] 3	CORE	(Math 130 or Math 140)	5	OR	M 0 F1 (0)	0
	18	CORE	[PSc 120 Gov't: U.S./Sta/Loc]		Psy 412	Meas & Eval (2) 2 Stu Tchng in Sec School	-3 8
		CORE	[HPER 101 Physical Activit		Educ 462	17-1	
2nd Semest	er	Educ 200	Orientation to Education II	1	*Offered at	night only. Must be taken pr	
Bio 431 OR	Animal Physiology (Bio 331)	Phys 151	Elem Col Phys I (Math 140		student tead		
Bio 33	Histology (Bio 112, 122)			18	(Prerequisite	es)	
OR	Thistology (Bio 112, 122)	0.10			[Departmen	Recommendations] -not nece	ssar-
Bio 462	Embryology (Bio 331) 4-5	2nd Semest	ler Imission to teacher education	n	ily in this ord	der	
Bio 322	Plant Taxonomy 4	Bio 211	Gen & Med Micro (Bio 101		Drogram mi	ust satisfy Writing Intensive re	nuiro-
CORE	[Humanities and Fine Arts] 3	Bio 305	Genetics (Bio 101)	4	ments. (See	,	quire
CORE	[Humanities and Fine Arts] 3	Bio 303	Comp App in Bio (consent))	ments. (occ	page co).	
CORE	[Hist 320 U.S. 1877-Present] 3 17-18	OR			For additio	nal information contact:	
	17-10	Educ 401	Computer Software		Mr. Michae	el A. Lawson	
Senior Yea	r	OR	amouting course	2-3		ynolds Hall 311	
1st Semeste		Cham 102	omputing course Gen Chem II (Chem 101)	2-3	Phone: 62		
Bio 362	Virology (Bio 231, 305) 4	Educ 302	[Psy 302] The Excep Child	1 2			
Bio 371	Plant Phys (Bio 112, 210) 4	Luu0 002		8-19			
Bio 490	Seminar (consent)				Premedic	cine	
Bio	Electives 2	Summer Se			Major Co	de 7005	
CORE	[Behavioral Science] 3 [HPER 103 Lifetm Wellness] 2	CORE	[Humanities and Fine Arts]] 3			
CORE	[HPER 103 Liletili Welliless] 2				Predentis	strv	
		Junior Yea			Major Co		
2nd Semes	ter	1st Semest			Major Co.	ac 7002	
	Ecology (Bio 112, 122)	Chem 300	Competencies. Intro to Modern		Dravatari	non	
Bio 402		Chem 300	Organic Chem (Chem 102	2)	Preveteri		
OR	Aguatic Ecology (Bio 122) 4	OR	Grganio Grieni (Grieni 15	,	Major Co		
		0	Org Chem I (Chem 102)	5	This progra	m will also qualify the student f	or the
OR Bio 481 Bio 456	Immunology (Bio 231, 305) 4	Chem 301			b b - l - u - f		0401
OR Bio 481	Immunology (Bio 231, 305) 4 Electives 9	Chem 301 Educ 329	Ped Theo, Meth & Prac	4	bachelor of	science in biology, major code	0401.
OR Bio 481 Bio 456 Bio	Immunology (Bio 231, 305) 4 Electives 9	Educ 329 Educ 321	Ped Theo, Meth & Prac Microteaching	2	Freshman		0401.
OR Bio 481 Bio 456 Bio	Immunology (Bio 231, 305) 4 Electives 9 17	Educ 329 Educ 321 Educ 423	Ped Theo, Meth & Prac Microteaching Classroom Management	2 2		Year er	
OR Bio 481 Bio 456 Bio	Immunology (Bio 231, 305) 4 Electives 9 17	Educ 329 Educ 321 Educ 423 CORE	Ped Theo, Meth & Prac Microteaching Classroom Management [HPER 103 Lifetm Wellnes	2 2 ss] 2	Freshman 1st Semest Course	Year er H	lours
OR Bio 481 Bio 456 Bio [Departmen (Prerequisit	Immunology (Bio 231, 305) 4 Electives 9 17	Educ 329 Educ 321 Educ 423	Ped Theo, Meth & Prac Microteaching Classroom Management	2 2 ss] 2 2	Freshman 1st Semest Course Bio 101	Year er H General Biology	lours 4
OR Bio 481 Bio 456 Bio [Departmen (Prerequisit	Immunology (Bio 231, 305) 4 9 9 17 on Recommendations] sets) 4 4 9 9 17 on Recommendations] sets)	Educ 329 Educ 321 Educ 423 CORE	Ped Theo, Meth & Prac Microteaching Classroom Management [HPER 103 Lifetm Wellnes	2 2 ss] 2	Freshman 1st Semest Course Bio 101 Chem 101	Year er F General Biology Gen Chem I (Math 140)	lours
OR Bio 481 Bio 456 Bio [Departmen (Prerequisit Program m ments. (See	Immunology (Bio 231, 305) 4 9 17 Immunology (Bio 231, 305) 4 9 Immunology (Bio 231, 305) 4 9 Immunology (Bio 231, 305) 4 9 Immunology (Bio 231, 305) 4 17 Immunology (Bio 231, 305) 4	Educ 329 Educ 321 Educ 423 CORE	Ped Theo, Meth & Prac Microteaching Classroom Management [HPER 103 Lifetm Wellnes	2 2 ss] 2 2	Freshman 1st Semest Course Bio 101 Chem 101 Math 140	Year er H General Biology	lours 4
OR Bio 481 Bio 456 Bio [Departmen (Prerequisit Program mments. (See	Immunology (Bio 231, 305) 4 9 17 Immunology (Bio 231, 305) 4 9 17 Immunology (Bio 231, 305) 4 9 17 Immunology (Bio 231, 305) 17 Immunology (Bio 231, 305) 4 9 Immunology (Bio 231, 305) 4 Immun	Educ 329 Educ 321 Educ 423 CORE	Ped Theo, Meth & Prac Microteaching Classroom Management [HPER 103 Lifetm Wellnes	2 2 ss] 2 2	Freshman 1st Semest Course Bio 101 Chem 101 Math 140 OR	Year er General Biology Gen Chem I (Math 140) Algebra & Trig	lours 4 5
OR Bio 481 Bio 456 Bio [Departmen (Prerequisit Program mments. (See For addition Dr. John Markets)	Immunology (Bio 231, 305) 4 9 17 Immunology (Bio 231, 305) 4 9 Immunology (Bio 231, 305) 4 9 Immunology (Bio 231, 305) 4 9 Immunology (Bio 231, 305) 4 Imm	Educ 329 Educ 321 Educ 423 CORE	Ped Theo, Meth & Prac Microteaching Classroom Management [HPER 103 Lifetm Wellnes	2 2 ss] 2 2	Freshman 1st Semest Course Bio 101 Chem 101 Math 140 OR Math 150	Year er General Biology Gen Chem I (Math 140) Algebra & Trig Calc w/Analytic Geom	lours 4 5
OR Bio 481 Bio 456 Bio [Departmen (Prerequisit Program mments. (See For addition Dr. John Markets)	Immunology (Bio 231, 305) 4 9 17 Immunology (Bio 231, 305) 4 9 Immunology (Bio 231, 305) 4 9 Immunology (Bio 231, 305) 4 Immunology (Bio 231, 3	Educ 329 Educ 321 Educ 423 CORE	Ped Theo, Meth & Prac Microteaching Classroom Management [HPER 103 Lifetm Wellnes	2 2 ss] 2 2	Freshman 1st Semest Course Bio 101 Chem 101 Math 140 OR	Year er General Biology Gen Chem I (Math 140) Algebra & Trig	lours 4 5

50 / Biology

2nd Semes		Organic C	hemistry can replace Chen	301 Or-	Summer S		
Bio 122 Chem 102	Zoological Survey (Bio 101) 3 Gen Chem II (Chem 101) 5	ganic Chei	mistry I and Chem 302 Organ	nic Chem-		Elem Col Physl (Math 140)*	5
CORE	[Psy 100 Gen Psychology] 3 [Eng 101 Comp I] 3	Ctudanta	laa ahaulalahaaluulahal		Junior Ye		
ONL	[Eng 101 Comp I] 3		lso should check with the pre out specific professional sch		1st Semes Chem 301		-
			ools may have other specific		Bio 331	Org Chem I (Chem 102)* Comparative Anatomy	5
ummer Se	emester	ments.	solo may mave outer specim	o require	Bio 433	Histology (Bio 112, 122)	4
ORE	[Comm 100 Oral Comm] 3				Psy 300	Child Development	
CORE	[Humanities and Fine Arts] 3	Program n	nust satisfy Writing Intensive	e require-	OR		
	6		ee page 35).		Psy 301	Adolescent Psychology	3
Sophomore		[Departme	nt Recommendations]				17
st Semeste		(Prerequis	ites)		2nd Semes	ster	
3io 112 3io 231	Botanical Survey (Bio 101) 3	Established a little			Phys 152	Elem Col Phys II (Phys 151)	
Phys 151	Gen & Med Micro (Bio 101) 5 Elem Col Phys I (Math 140) 5		onal information contact:		Chem 302	Org Chem II (Chem 301)	5
CORE	[HPER 103 Lifetm Wellness] 2		e R. Prentice (Premedicia	ne)	Bio 456	Immunology (Bio 231, 30	
CORE	[Eng 102 Comp II] 3		eynolds Hall 320		Math 310 CORE	Elem Statistics*	3
	18	Phone: 6	25-9539		CONL	[Humanities and Fine Arts	s] 3 18
2nd Semest	ter	Dr. Gerale	Schlink (Preveterinary)		Senior Yea		
Bio 305	Genetics (Bio 101) 4		eynolds Hall 313B		1st Semes		
Phys 152	Elem Physics II (Phys 151) 3	Phone: 6	25-9764		Bio 316	Economic Botany (Bio 11	2) 3
Bio 303	Comp App in Bio (consent)				Bio 431	Animal Physiology (Bio 33	
OR			Tillman (Predental)		Bio 490	Seminar	1
	omputing class 2-3	Office: R	eynolds Hall 317D		CORE	[International Cultural Stu	
Bio 210	Molecular & Cellular Bio	Phone: 6	25-9698		CORE	[Hist 320 U.S. 1877-Prese	
ORE	(Bio 112, 122, Chem 102) 4				CORE	[PSc 120 Gov't: U.S./Sta/Loc	4
ONE	[Humanities and Fine Arts] 3 16-17						18
	10-17	Preopto	metry		2nd Semes	eter	
Summer Se	mester	Major Co	de 7006		Bio 402	General Ecology (Bio 112, 12	22)
CORE	[Humanities and Fine Arts] 3				OR	General Ecology (Bio 112, 12	22)
CORE	[Hist 110 U.S. 1877-Present] 3	hachelor of	im also will qualify the stude science in biology.	nt for the	Bio 481	Aquatic Ecology (Bio 122)) 4
	6				Bio 306	Human Phys & Anat	
		Freshman				(Bio 121 or consent)	5
Junior Year		1st Semes	er		Electives		3
st Semeste		Course Bio 101	General Biology*	Hours	CORE	[Humanities and Fine Arts	
3io 331	Compar Anatomy (Bio 122) 5	Chem 101	Gen Cheml (Math 140)*	4 5			18
Chem 301 CORE	Org Chem I (Chem 102) 5 [Econ 180 Amer Econ Sys] 3	Math 140	Algebra & Trig	5	*Indicates	courses which satisfy minir	
Bio 362	[Econ 180 Amer Econ Sys] 3 Virology (Bio 231, 305) 4	Psy 120	College Orientation	1	quirements	for admission into Optometry	School
002	17	CORE	[HPER 101 Physical Activ	vity] 1	Application	may be made with 90 semeste	erhoui
	of comments and a cubble a			16	Strong prefe	erence is given to applicants v	who ho
2nd Semest		and Compa	tor		the bachelo	or's degree.	
3io 456	Immunology (Bio 231, 305) 3	2nd Semes Bio 122	Zoological Survey (Bio 10	11) 2			
Chem 302	Org Chem II (Chem 301) 5	Chem 102	Gen Chem II (Chem 101)	* 5		nt Recommendations]	
3io 462	Embryology (Bio 331) 5	CORE	[Eng 101 Comp I]*	3	(Prerequisit	tes)	
	13	CORE	[Psy 100 GenPsychology		Program m	ust satisfy Writing Intensive	requir
Senior Year		CORE	[Comm 100 Oral Comm]*		ments. (See		require
st Semeste				17			
Bio 316	Economic Botany (Bio 112) 3	Sophomor	e Vear				
Sio 431	Animal Physi (Bio 331) (5)	1st Semest			For addition	onal information contact:	
)R	I l'alla de la constanta de la	Bio 112	Botanical Survey (Bio 101	1)* 3	Dr. E. San	n Gibson (Preoptometry)	
sio 433 sio 490	Histology (Bio 112,122) (4) 5-4 Seminar (consent)	Bio 305	Genetics (Bio 101)	4		eynolds Hall 317C	
hem 201	A	CORE	[Eng 102 Comp II]*	3	Phone: 62	25-9699	
	Analy Chem I (Chem 102) 5	Math 150	Calc w/Analy Geomtry				
	10-14	CORE	(Math 140)*	5	Drophysi	ical Theren:	
nd Semeste		CORE	[HPER 103 Lifetm Wellne			ical Therapy	
lio 402	Gen Ecology (Bio 112,122) 4			17	Major Co		
ORE	[International Cultural Stud] 3	2nd Semes	ter		For transfer	to University of Missouri-Co	lumbia
ORE	[Hist 320 U.S. 1877-Present] 3	Bio 231	Gen & Medi Micro (Bio 10	1) 5	Freshman		
ORE	[PSc 120 Gov't: U.S./Sta/Loc] 3	Bio 210	Molecular & Cellular Bio	,	1st Semeste	er	
lath 310	Elem Statistics (Math 130) 3		(Bio 112, 122, Chem 102)		Course		Hours
	16	Bio 303	Comp App in Bio (consen		CORE Moth 140	[Eng 101 Comp I]	3
Preveterina	ry students also must enroll in B	OR			Math 140 Bio 121	Algebra & Trig	5
61 Animal N	lutrition and Chem 351 Biochemist	Approved c	omputing class [Econ 180 Amer Econ Sys	2-3	OR	General Zoology	
· CONTRACTOR OF COMME		/ LUHH	IECON TRU Amor Econ Cur	21 2	VII.		

Approved computing class 2-3
CORE [Econ 180 Amer Econ Sys] 3
CORE [Hist 110 U.S.1877-Present]*3
17-18

Bio 101 CORE

General Biology [Psy 100 Gen Psychology]

prior to acceptance at the University of Missouri Veterinary School. Chem 300 Intro to Modern

Chemistry / 51

Psy 120	College Orientation	1 16
2nd Semeste CORE Psy 311 CORE Chem 101 CORE	er [Eng 102 Comp II] Applied Statistics-Behaviora & Natural Science [PSc 120 Gov't: U.S./Sta/Loc] Gen Chem I (Math 140) [Comm 100 Oral Comm]	3 3 3 5 3
Summer Sen Bio 231 OR Bio 306	Gen & Med Micro (Bio 101 or 121) Human Phys & Anatomy (Bio 121 or consent)	5
Sophomore 1st Semester Phys 151 Psy 221 CORE Chem 102 HPER 103		5 3 3 5 2 18
2nd Semeste Bio 210 CORE CORE Phys 152	r Molecular & Cellular Bio (Bio 101 or 121, Chem 102) [Humanities and Fine Arts] [HPER 101 Physical Activity Elem Col Phys II (Phys 151)	6

Residents of Missouri usually apply for admission to the Physical Therapy School, University of Missouri-Columbia or other physical therapy schools within the state. Residents of other states should consult with Mr. Tillman, department of biology, as individual schools of physical therapy may require different prerequisites. Completion of the above course does not automatically admit an applicant into the physical therapy program at the University of Missouri.

3

17

[Department Recommendations] (Prerequisites)

For additional information contact: Mr. David Tillman

Office: Reynolds Hall 317D

Phone: 625-9698

Transfer Control

Soc Sci Elective

Preagriculture Major Code 7001

Prepharmacy Major Code 7007

Preagriculture and prepharmacy programs at Missouri Southern are designed to match the plans of individual students. See page 75.

For additional information contact: Dr. Gerald Schlink (Preagriculture) Office: Reynolds Hall 313B

Phone: 625-9764

Dr. John Messick (Prepharmacy)
Office: Reynolds Hall 215

Phone: 625-9617

Chemistry

Reynolds Hall 210, 625-9376

Faculty Baiamonte - Head, Albright, Kash, Malzahn, Mosher, Whittle

Chemistry graduates will find an impressive array of options and exciting opportunities in fields such as basic research, environmental protection, instrumentation, new product and process development, technical marketing, market research, forensic chemistry, teaching at all levels and information science. Moreover, an education in chemistry is valuable in health sciences such as medicine, pharmacology, clinical chemistry and industrial hygiene. The first step into a future in chemistry is a formal education. Since chemistry is such a broad field and holds diverse career opportunities, students should plan their education with a goal in mind.

Bachelor of Arts with a Major in Chemistry

Semester Hours Core Requirements (p.35) 51* 43 Foreign Language (four courses in one language) 12 **Chemistry Requirements** 28 Chem 101 General Chemistry I** 5 Chem 102 General Chemistry II** 5 Chem 201 Analytical Chemistry I** Chem 300 Intro to Modern Organic Chemistry (5 hrs.) and Upper **Division Chemistry Electives** (8 hrs.)excluding Chem 301

OR
Chem 301 Organic Chemistry I (5 hrs.),
Chem 302 Organic Chemistry
II (5 hrs.), Upper Division
Chem Electives (3 hrs.)
excluding Chem 300** 13

and Chem 302**

excluding Chem 300** 13 Supporting Requirements 16 Phys 151 Elementary College Physics I** 5 Phys 152 Elementary College Physics II* 3 Math 150 Calculus with Analytic Geom I* 5 Comp 110 Programming I

Higher level computer course 3
Electives 29

*Required chemistry, physics and mathematics courses satisfy major requirements and 8 hours of the Core Curriculum.

**See Prerequisites

***Must include at least 40 upper division (300 - 400 level) hours.

Note: A bachelor of arts degree in chemistry is for students who need some knowledge of chemistry as a basis for work in other fields but who do not expect to become professional chemists.

Bachelor of Science with a Major in Chemistry

	Semeste	er Hours
Core Requ	irements (p. 35) 51*	43
Chemistry	Requirements	33
Chem 101	General Chemistry I**	5
Chem 102	General Chemistry II**	5
Chem 201	Analytical Chemistry I*	* 5
Chem 301	Organic Chemistry I**	5
Chem 302	Organic Chemistry II**	5
Chem 401	Physical Chemistry I**	4
Chem 402	Physical Chemistry II**	4
Supporting	Requirements	23
Phys 250	General Physics I**	5
Phys 260	General Physics II**	5
Math 150	Calculus with Analytic	
	Geometry I**	5
Math 250	Calculus with Analytic	
	Geometry II**	5
Comp 110	Programming I	
OR		
Higher level	computer course	3
Electives**	*	29
		128****

*Required chemistry, physics and mathematics courses satisfy major requirements and 8 hours of the Core Curriculum.

**See Prerequisites

***Suggested Electives (Chem 421, Chem 422, Chem 472, Math 260, Math 322, Phys 372, Phys 341)

****Must include at least 40 upper division (300 - 400 level) hours.

Bachelor of Science in Education with a Major in Chemistry

Grades K-12 Certification

Plan A One of Two Teaching Fields

Semester Hours

Core Requirements (p. 35) 51* 36

Chemistry Requirements 27

Chem 101 General Chemistry II** 5

Chem 102 General Chemistry II** 5

Chem 101 General Chemistry I** 5
Chem 102 General Chemistry II** 5
Chem 201 Analytical Chemistry I** 5
Chem 301 Organic Chemistry I** 5
Chem 302 Organic Chemistry II** 5
Chem 496 Problems in Chemistry 2

52 / Chemistry

upporting Requirements 21	Minor in	Chemistry		2nd Semeste	
hys 151 Elementary College		Competer He	ourc	Chem	r-LL-
Physics I** 5	01 101	Semester Ho		Foreign Lang	[Psy 100 or Soc 110] 3
ath 140 Algebra & Trigonometry** 5		,	5	CORE	[Bio 101 General Biology] 4
eol 300 Environmental Geology 4			5	CORE	[Humanities and Fine Arts] 3
io 101 General Biology 4		, midif modil dilitinoni	5	CORE	17
omp 110 Programming I (in place	Chem 300	or 301 (Organic			and the second
of Educ 401)		Chemistry)*	5	Senior Year	
R			20	1st Semeste	
igher level computer course 3	*See Prere	quisites		CORE	[Humanities and Fine Arts] 3
ducation Certification Requirements				Foreign Lang	
				CORE	[International Cultural Stu] 3
. 00/				Electives	6
econd Teaching Field (some fields	Sugges	ted Order of Study			15
xceed 30 hours) 30 153***				0-10	
100				2nd Semester Foreign Lang	and the first of the control of the
Required chemistry, physics, mathemat-	Bachelor			CORE	[Hist 120 or 320 U.S. Hist]
es, psychology and biologycourses satisfy	Major Coo	le 1905		Electives	6-7
najor requirements and 15 hours of the	Chemistr	y Major		Licotivoo	12-13
	Freehman \	/oor			
fore Curriculum.	Freshman \ 1st Semeste			Student may	elect either Chem 300 plus 8 ho
See Prerequisites	Course		ours	of upper divis	sion chemistry (excluding Chem
**(Varies with 2nd field)	Chem 101	Gen Chem I (Algebra & Trig)	5	and Chem 3	02) or Chem 301 and Chem 302
	Math 150	Calculus I	5		upper division chemistry elect
	CORE	[Eng 101 Comp I]	3	(excluding C	chem 300).
Bachelor of Science in	CORE	[HPER 103 Lifetm Wellness]	2		
	Psy 120	College Orientation	1	(Prerequisite	
Education with a Major		1	16	[Department	t Recommendations]
n Chemistry				For additio	nal information contact:
Grades 7-12 Certification	2nd Semest		_		
Plan B Single Teaching Field	Chem 102	Gen Chem II (Chem 101)	5		Baiamonte
Semester Hours	CORE	[Eng 102 Comp II]	3		ynolds Hall 213
	CORE	[Hist 110 U.S. History] (Sec area of concentration)	3	Phone: 62	5-9541
(1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Electives	Programming I	3		
	Comp 110		17	Dacheley	of Colones
Chem 101 General Chemistry I** 5					of Science
Chem 102 General Chemistry II** 5	Sophomore	Year		Major Cod	
Chem 201 Analytical Chemistry I** 5	1st Semeste			Chemistr	y Major
Chem 301 Organic Chemistry I** 5	Chem 301	Org Chem I* (Chem 102)		Freshman '	Vear
Chem 302 Organic Chemistry II** 5	OR	famene make 27		1st Semeste	
Chem 351 Biochemistry** 4	Chem 201	Analy Chem I (Chem 102)	5	Course	Но
Chem 401 Physical Chemistry I** 4	Phys 151	Elem Col Phys I (Math 140)		Chem 101	Gen Chem I (Algebra & Trig)
Chem 496 Problems in Chemistry 2	CORE	[HPER 101 Physical Activity]		Math 150	Calculus I
Supporting Requirements 31	Electives	(Sec area of concentration)		CORE	[Eng 101 Comp I]
Phys 250 General Physics I** 5			16	Comp 110	Programming I
Phys 260 General Physics II** 5	0-10			Psy 120	College Orientation
Math 150 Calculus with Analytical	2nd Semest				1
Geometry I** 5	Chem 302 OR	Org Chem II* (Chem 301)			
Math 250 Calculus with Analytical	Chem 300	Intro to Modern Organic		2nd Semes	
Geometry II** 5	Onem 300	Chemistry (Chem 102)	5	Chem 102	Gen Chem II (Chem 101)
Geol 300 Environmental Geology 4	Phys 152	Elem Col Phys II (Phys 151)		Math 250	Calculus II (Math 150)
Bio 101 General Biology* 4	CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3	CORE	[Eng 102 Comp II] [HPER 101 Physical Activity]
Comp 110 Programming I (in place	Electives	(Sec area of concentration)	5	CORE	
of Educ 401)			18	OUNE	[Psy 100 or Soc 110]
OR Educ 401)					
Higher level computer course 3	Junior Yea			Sophomore	e Year
Education Certification Requirements	1st Semest			1st Semest	
p. 115-127) 39	Chem 201	Analy Chem I (Chem 102)		Chem 301	Org Chemistry I (Chem 102)
141	OR	[Upper Division Floatius]	5	Phys 250	General Physics (Math 150)
	Chem Foreign Lar		3	Elective	[Math 260 Calc III] (Math 250)
Required chemistry, physics, mathemat-	Foreign Lar CORE	[Comm 100 Oral Comm]	3	CORE	[PSc 120 Gov't: U.S./Sta/Loc]
	CORE	[Humanities and Fine Arts]	3		1
cs, psychology and biology courses satisfy	CORE	[Econ 180 Amer Econ Sys]	3	and Com-	10.
najor requirements and 15 hours of the	JOHL	16-		2nd Semes	
Caro Curriculum				Chem 302 Phys 260	Org Chem (Chem 301) Gen Physics II (Phys 250)
Core Curriculum.				Phys 260	Gen Physics II (Phys 250)
Core Curriculum. *See Prerequisites				Flooting	[Math 322 Differential
				Elective	[Math 322 Differential
				Elective	[Math 322 Differential Equations] (Math 260) [Econ 180 Amer Econ Sys]

Communications / 53

Junior Yea	ır	2nd Semes	ter
1st Semest		Chem 102	Gen Chem II (Chem 101) 5
Chem 401	Phys Chem I (Math 250, Phys 260)	Math 250	Calculus II (Math 150) 5
OR	Thys onomit (waar 200, Thys 200)	CORE	[Eng 102 Comp II] 3
Elective	[Chem 422 Adv Inorg Chem] 4	Psy 100	General Psychology 3
Liective	(Chem 102, Math 250)	CORE	[HPER 103 Lifetm Wellness] 2
Chem 201		CORL	18
			10
CORE	[Comm 100 Oral Comm] 3	0	. V
CORE	[HPER 103 Lifetm Wellness] 2	Sophomor	
CORE	[Hist 110 U.S. History] 3	1st Semest	
	17	Take C-Bas	
		Chem 301	Organic Chemistry I
2nd Semes			(Chem 102)-fall only 5
Chem 402	Physical Chem II (Chem 401)	Phys 250	Gen Physics I (Math 150) 5
OR		Bio 101	General Biology
Elective	[Chem 472 Organic Qualitative	OR	
	Analysis] (Chem 302) 4	Geol 300	Environmental
Elective	[Chem 421 Analytical Chem-		Geology-fall only 4
	istry II] (Chem 210) 5	Educ 200	Orientation to Education II 1
CORE	[Humanities and Fine Arts] 3		15
CORE	[Bio 101 General Biology] 4		
	16	2nd Semes	ter
		Apply for ac	dmission to teacher education.
Senior Yea	r	Chem 302	Organic Chemistry II
1st Semest		0110111 002	(Chem 301)-spring only 5
Chem 401	Phys Chem I (Math 250, Phys 260)	Phys 260	Gen Physics II (Phys 250) 5
OR OR	1 Trys Cheff (Watt 250, 1 Trys 200)	CORE	[PSc 120 Gov't: U.S./Sta/Loc] 3
Elective	[Chem 422 Adv Inorganic Chem]	CORE	[Econ 180 Amer Econ Sys] 3
Elective		Psv 301	Adolescent Psychology 3
T1	(Chem 102, Math 250) 4		
Elective	[Chem 497 Res in Chem] 1	Educ/Psy 3	
CORE	[Humanities and Fine Arts] 3		21
CORE	[Hist 120 or 320 U.S. Hist] 3		
CORE	[International Cultural Stu] 3	Junior Yea	
	14	1st Semeste	
		Chem 401	Physical Chemistry I
2nd Semes			(Math 250, Phys 260)-fall only
Chem 402	Physical Chemistry II (Chem 401)	OR	
OR		Chem 351	Biochemistry
Elective	[Chem 472 Org Qualitative		(Chem 302)-fall only 4
	Analysis] (Chem 302) 4	Chem 201	Analytical Chemistry-fall only 5
Elective	[Chem 497 Res in Chem] 2	Geol 300	Environ Geology-fall only
Elective	[Phys 372 Electronic Circuits]	OR	
	(Phys 260) 4	Bio 101	General Biology 4
CORE	[Humanities and Fine Arts] 3	Psy 310	Educ Psychology (Psy 100) 2
	13	CORE	[Humanities and Fine Arts] 3
			18
(Prerequisit	tes)		
	nt Recommendations]	2nd Semes	ter
[Doparano.		Pass Media	Competencies.
For addition	onal information contact:	Chem 496	Problems in Chemistry 2
		CORE	[Humanities and Fine Arts] 3
	n Baiamonte	CORE	[Hist 110 U.S. History] 3
	eynolds Hall 213	Educ 329	Ped Theo, Meth & Prac 4
Phone: 62	25-9541	Educ 321	Microteaching 2
		Educ 423	Classroom Management 2
		Educ 423	16
		Canias Van	
Pachala	r of Science in Education	Senior Yea	
		1st Semest	
Major Co			udent teaching. All course work mu
Chemist	ry Major		ed except for Professional Semeste
(Plan B)	Single Teaching Field	Courses.	Di di al Olemai i di
	7-12 Certification	Chem 401	Physical Chemistry I
Grades /	-12 Certification		(Math 250, Phys 260)-fall only
Freshman	Year	OR	
1st Semest		Chem 351	Biochemistry
Course	Hours		(Chem 302)-fall only 4
Cham 101	Canaral Chamistry I	CORE	[Humanities and Fine Arts] 3

CORE

CORE

CORE

CORE

5

5

3

3

18

General Chemistry I

(Algebra & Trig)

Programming I

[Eng 101 Comp I]

College Orientation

Orientation to Education I

Calculus I

Chem 101

Math 150

Comp 110

Educ 100

CORE Psy 120 [International Cultural Stu]

[Hist 120 or 320 U.S. Hist]

[Comm 100 Oral Comm]

[HPER 101 Physical Activity] 1

2nd Semeste	er	
Educ 333	Tching Sci in Sec Sch	2
Educ 402	Foundations of Education	2
Educ 432	Critical Issues	2
Educ 462	Student Teaching Sec	8
Educ 422	Tching Rding in Sec Sch	2
Select One:		2-3
Educ 412	Indiv Curr Development (2))
Educ 420	Intro to Counseling (3)*	
Psy 412	Meas & Eval (2)	
		18

*Must be taken prior to student teaching semester.

(Prerequisites)
[Department Recommendations]

For additional information contact: Dr. Vernon Baiamonte Office: Reynolds Hall 213

Phone: 625-9541

Communications

Webster Hall 353, 625-9580

Faculty Massa - Head, Bodon, Bryant, Carter, Clark, Crawford, Kumbier, Merriam, Moorman, Morris, Peterson, Policarpo, Stebbins, Yocum

A major in communications offers an array of career opportunities in such fields as public communication, television, radio and journalism. In the education process, emphasis is placed on speaking and writing skills as well as gaining technical knowledge related to mass media production and publication. A major in communications is one of the most diversified areas of study available to students who wish to excel in business, industry, government or education at the local, state, national and international levels. Missouri Southern graduates in communications have found successful careers in the media, in government, in education and in a variety of public relations positions for hospitals, state and national associations, in retailing and in industry.

Students pursuing a bachelor of arts degree in communications have two options. Option I, speech communication, examines the role of human communication in social, organizational, political and cultural interactions. This option places a balanced focus on the theory and practice of communicating. Special emphasis includes identifying the antecedents of communication, its form and content and its consequences. Option II, mass communications, offers students the necessary abilities in planning, preparing and producing programs in electronic media and/or designing and writing for journalism. This

54 / Communications

option emphasizes the technical skills, creativity and demand for understanding target audiences in mass media. Students gain hands-on experience in television, radio and print laboratories, each outfitted with stateof-the-art equipment. Also available is a bachelor of science degree in education with a teaching emphasis in speech communication and theatre.

The communications department oversees the student operations of Missouri Southern Television with its cable service MSTV and its community station K57DR, in addition to the available media training through PBSaffiliated KOZJ in Joplin. The department also manages KXMS, a 24-hour-a-day classical radio station operated by students and community volunteers. Perhaps the most widely recognized contribution of the communications department is The Chart, a student operated college newspaper published once a week. Additionally, the department publishes the Crossroads yearbook.

Students also have opportunities to participate in other communications sponsored activities. The debate and forensics program offers students the chance to develop their critical thinking skills and to participate in events such as informative, persuasive and extemporaneous speaking competitions. Debate and forensics students may join the forensic honor society of Pi Kappa Delta. Communications majors interested in mass media may join Southern's chapter of the national broadcast fraternity of Alpha Epsi-Ion Rho and participate in its state, regional and national conventions. The department also sponsors the Modern Communications Club which plans on-campus events and offcampus field trips for students interested in communications activities. The club expands the scope of communications to include foreign language speakers.

Internships are encouraged for communications majors. These internships allow students to gain work experience in occupational positions they may wish to pursue. Students work under the joint supervision of a faculty member and a representative of the organization providing the intern experience. The communications curriculum acknowledges the diversity and interconnectedness among peoples, promotes an understanding of human values and prepares its students for leadership in a competitive world.

Core Curriculum requirements for all students of the College include Comm 100, Oral Communication.

Bachelor of Arts with a **Major in Communications**

Option I: Speech Communication

Semester	Hours
Core Requirements (p. 35)	51
Computer Literacy Requirement:	
Comp 105 Intro to Microc Use	3
Foreign Language (four courses i	in
one language)	12**
Communications Requirements	47
Comm 101 Introduction to Human	
Communication	3
Comm 131 Voice and Diction	3
Comm 215 Interpersonal	
Communication*	3
Comm 300 Organizational	
Communication*	3
Comm 411 Political and Social	
Communication*	3
Comm 420 Mass Communications	
Theory*	3
Comm 492 Communication Issues*	3
Communication Electives	26
Electives	15
	128***

*See Prerequisites

Electives

**A proficiency level of "Intermediate Plus" is required.

***Must include at least 40 upper-division (300-400 level) hours.

Bachelor of Arts with a **Major in Communications**

Option II: Mass Communications

Semester Hours Core Requirements (p. 35) 51 **Computer Literacy Requirement:** Comp 105 Intro to Microc Use 3 Foreign Language (four courses in one language) **Communications Requirements** 47 Comm 101 Intro to Human Communication 3 Comm 111 Newswriting 3 Comm 215 Interpersonal Communication 3 Comm 220 Practicum in Communications* 2 (Student must select two different activities.) Comm 310 Communication Law 3 Comm 325 Broadcast News Reporting* Comm 330 Advanced Communications Practicum* Comm 420 Mass Communications Theory* 3 Comm 492 Communication Issues* 3 Communication Electives 23

*See Prerequisites

**A proficiency level of "Intermediate Plus" is required.

***Must include at least 40 upper division (300 - 400 level) hours. Courses numbered 300 and above in history, political science, sociology, business and psychology are recommended.

Bachelor of Science in Education with a Major in Speech Communication and Theatre

Grades 7-12 Certification

Dlan D Single Teaching Field

Plan B	Single Teachi	ng Field
Core Requ	Semeste irements (p. 35) 51* Literacy Requirements	er Hours 48
Educ 401	Use of Computer So	ftware
in the Clas		2
	ations Requirements	
	Intro to Human	
00111111101	Communication	3
Comm 215	Interpersonal	
COMMITZIO	Communication**	3
Comm 304	Small Group	0
00111111 004	Communication**	3
Comm 315	Argumentation	0
00111111111111	and Debate**	3
Theatre Re	quirements	17
	2, 221, or 222—	
111 121, 122	Theatre Laboratory	2
Th 142	Theatre Technology	2 3
Th 212	Oral Interpretation	3
Th 241	Acting I	3
Th 331	History of Theatre (W	
OR	riiotory or riicatic (VV	')
Th 332	History of Theatre	3
Th 351	Directing**	3
	Communications	0
Licotivoo iii	and/or Theatre	11***
Electives	and/or meatic	3
	Certification Require	_
(p.115-127)		38-39
(121)		131-132

*Required course in psychology counts 3 hours toward Core Curriculum requirements, Area 3C.

*See Prerequisites

15 128***

***Must be approved in advance by the student's adviser who must be selected from either the area of speech communication or theatre.

****Two credit hours are satisfied by Educ

Communications / 55

Minor in Mass Communications

Semester	r Hours
Comm 111 Newswriting	3
Comm 310 Communication Law	3
Comm 325 Broadcast News	12 500
Reporting	3
Communications electives*	
	18

*Electives must be above the 100 level and must be chosen in consultation with an adviser from the communications department. A student may emphasize either the print or broadcast media.

Minor in Speech Communication

Semester	Hours
Comm 100 Oral Communication*	3
Comm 214 Interpersonal	
Communication	3
Comm 304 Small Group	
Communication	3
Comm 306 Persuasion	3
Comm 307 Professional Interviewing	3
Comm 401 Nonverbal Communication	3
	18

This minor is designed especially for those individuals who will be entering business, industry, education or any field calling for "superior communication skills."

*Meets Core Curriculum requirement.

Suggested Order of Study

Bachelor of Arts Major Code 0600 **Communications Major Mass Communications Option Broadcast Emphasis**

Freshman Y 1st Semester Course		U
Foreign Lang	ulago.	Hour
CODE		3
CORE	[Eng 101 Comp I]	3
CORE	[Comm 100 Oral Comm]	3
Comm 101	Intro to Human Comm	3
Comm 111	Newswriting	3
Psy 120	College Orientation	1
		16
2nd Semeste	r	
Foreign Lang	uage	3
CORE	[Eng 102 Comp II]	3
CORE	[HPER 103 Lifetm Wellness	s] 2
CORE	[Econ 180 Amer Econ Sys]	3

Intro to Broadcasting

Voice and Diction

Comm 130

Comm 131

Sophomo 1st Semes	ster	
Foreign La CORE CORE Comm 219 Comm 200	anguage [HPER 101 Physical Activ [Humanities and Fine Arts 5 Interpersonal Comm	3 vity] 1 s] 3
OR Comm 20 Comm 220 Electives	·····	3 1 3 17
2nd Semes Foreign La CORE Comm 200 OR	nguage [Humanities and Fine Arts	3
Comm 201 Comm 220 CORE Electives	Practicum in Comm [Math 110 Intro to Col Mati	3 1 h] 3 3-5 6-18
Junior Yea		
1st Semest	er	
Comp 105 CORE CORE Comm 320 Comm 325	Intro to Micro Use [Humanities and Fine Arts] [Biology] Advanced TV Production Broadcast News Reporting	3 4 3 3 16
2nd Semest	ter	
CORE CORE Comm 310 Comm 402 Comm 301	[Phys 100 Fund of Phys Sc [Psy 100 or Soc 110] Comm Law Broadcast Programming Broadcast & Cable Mgmt	i] 5 3 3 3 17
Senior Year		
1st Semeste CORE CORE COME COMM 330 CORE Comm Elective		3 1 3 3 3 16
2nd Semeste CORE Comm 420 Comm 492 Electives	[Hist 320 U.S. History] Mass Comm Theory Comm Issues (upper division)	3 3 5 14

Electives should be chosen in consultation with the adviser to meet desired career goals. Courses in history, business, political science, sociology, psychology, art and theatre all may be appropriate.

[Department Recommendations]

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3

3 17

For additional information contact: Mr. Richard W. Massa Office: Webser Hall 362 Phone: 625-9372

Bachelor of Arts Major Code 0600 **Communications Major** Mass Communications Ontion

Newspa	ommunications Option aper Emphasis	n
Freshman 1st Semes	n Year	
Course Foreign La CORE CORE Comm 10 Comm 11 Psy 120	anguage [Eng 101 Comp I] [Comm 100 Oral Comm] 1 Intro to Human Comm	Hours 3 3 3 3 1 16
2nd Seme Foreign La CORE CORE CORE COME Comm 220 Elective	Inguage [Eng 102 Comp II] [Math 110 Intro to Col Mat [HPER 101 Physical Activi	3 3 h] 3 ity] 1 1 3 14
Sophomor 1st Semest CORE CORE Foreign Lar Comm 215 Comm 220 Comm	ler [HPER 103 Lifetm Wellnes [Econ 180 Amer Econ Sys] Inguage Interpersonal Comm Practicum in Comm Electives [Comm 231 Feature Writing]	[s] 2] 3 3 3 1
2nd Semes: Foreign Lar CORE CORE COMM CORE Elective	guage [Humanities and Fine Arts] [Psy 100 or Soc 110] Elective [PSc 120 Gov't: U.S./Sta/Loc]	3 3 3 3 2-3 -18
1st Semeste Comp 105 CORE CORE Comm 325 Comm 330 Elective	Intro to Micro Use [Humanities and Fine Arts] [Biology] Broadcast News Reporting Adv Comm Practicum [upper division]	3 3 4 3 1 2 16
and Semeste CORE CORE CORE COMM 310 COMM	[Humanities and Fine Arts] [Phys 100 Fund of Phys Sci] [Hist 110 U.S. History] Comm Law Elective (upper division)	3 5 3 3 3

[Hist 320 U.S. History]

[upper division]

Electives [upper division]

3

8

4

15

Senior Year

1st Semester CORE

Comm

Electives

56 / Communications

56 / Cor	nmunications	
CORE [C	s Comm Theory 3 omm 305 Intercul Comm] 3 omm Issues 3 pper division) 4	
consultation wi career goals. Of an area of mino	nmunications should be chose the the adviser to meet des ther electives should be chose or concentration or in a suppo- pals. Courses in history, busin e, sociology and psychology mended.	en in ired en in rtive ess,
[Department R	ecommendations]	
For additiona Mr. Richard V Office: Webs Phone: 625-9	ter Hall 362	
Bachelor o Major Code Communic Speech Co		
CORE CORE Psv 120	House [Eng 101 Comp I] [Comm 100 Oral Comm] [Math 110 Intro to Col Math] College Orientation Intro to Human Comm	ours 3 3 3 3 1 3
2nd Semeste Foreign Lang CORE CORE CORE Comm 131 Comm	r uage [Eng 102 Comp II] [HPER 103 Lifetm Wellness] [Econ 180 Amer Econ Sys] Voice and Diction Elective	3 3 2 3 3 3
Sophomore 1st Semester Foreign Lang CORE CORE Comm 215 Comm Elective		3] 1 3 3 3 3
2nd Semeste Foreign Lang CORE CORE Comm Electives		3 3 3 6 18
Junior Year 1st Semeste Comp 105 CORE CORE COMB 300		3 3 4 3 3

	2nd Semeste CORE CORE CORE COMM 411 Comm	[Phys 100 Fund of Phys Sci] [Psy 100 or Soc 110] [Hist 110 U.S. History] Political and Social Comm Elective (upper division)	5 3 3 3 3
n d n e s, e	Senior Year 1st Semester CORE Comm Elective	[Hist 320 U.S. History] Electives (upper division) (upper division)	3 9 3 15
	2nd Semeste Comm 420 CORE Comm Comm 492	Mass Comm Theory [Comm 305 Intercul Comm] Electives (upper division) Comm Issues	3 3 6 3 15
	Electives sh with the adv	ould be selected in consultation iser to meet desired career go	on oals.
	[Departmen	t Recommendations]	
S	Mr. Richar	nal information contact: d W. Massa bster Hall 362 5-9372	
	Major Co Speech- Grades 7 (Plan B)	Theatre Major 7-12 Certification Single Teaching Field	on
	Freshman 1st Semest Course Comm 101 CORE CORE CORE CORE	ter	Hours 3 3 3 h] 3 4
	Psy 120 Educ 100	Orientation to Education	1 18
	2nd Seme Psy 100 Comm Th 142 CORE CORE	ster General Psychology Electives Theatre Technology [Eng 102 Comp II] [Humanities and Fine Arts	3 6 3 3 3 18
3 3 3 4 4 3 3	Sophomo 1st Semes Take C-Ba Comm Comm 21 Psy 301 Th 241 CORE CORE Educ 200	ster ase test. Elective 5 Interpersonal Comm Adolescent Psychology Acting I [Humanities and Fine Arts [HPER 103 Lifetm Wellne	ess] 2

Psy 310 Educ 302 Th 212 CORE	ission to teacher education. Educational Psychology The Exceptional Child Oral Interpretation [Humanities and Fine Arts] [Hist 110 U.S. History]	2 2 3 3 3 3
CORE	[HPER 101 Physical Activit	
Junior Year 1st Semester		
	competencies. Ped Theo, Meth & Prac	4
Educ 329	Microteaching Secondary	
Educ 321	Intro to Instructional Media	2
Educ 390	Small Group Comm	3
Comm 304 Comm 315	Argumentation and Debate	2 2 3 3 3
Th 331	History of the Theatre	2
Educ 423	Classroom Management	19
2nd Semeste CORE Comm CORE CORE CORE Educ 422	[Comm 305 Intercul Comn Elective [Phys 100 Fund of Phys S [PSc 120 Gov't: U.S./Sta/Loc [Econ 180 Amer Econ Sys Reading in Sec Schools	3 ci] 5] 3
be complete		ork must Semester
courses.	Directing	3
Th 351	Directing I [Hist 320 U.S. History]	3
CORE		
Educ 412 o	or Psy 412	2-3
Floatives	01 F 3y 412	9
Electives		47.40

2nd Semester

2nd Semeste			
Educ 402	Foundations of Education	2	
Educ 432	Critical Issues in Education	2	
Educ 344	Teaching Speech & Theatre		
	in Sec. Schools	2	
Educ 401	Use of Comp Sftwr in Clsrm	2	
Educ 462	Student Teaching	8	
		16	

17-18

[Department Recommendations]
*Must be taken prior to the student teaching semester.

For additional information contact: Mr. Richard W. Massa

Office: Webster Hall 362 Phone: 625-9372

English

Hearnes Hall 300, 625-9377

Faculty Spector - Head, Ackiss, Brown, Couch, Denniston, Dworkin, Greenlee, Harder, Kumbier, Lambert, Marlowe, Morgan, Preble, Rodgers, Saltzman, Simpson, Spracklen, Walters

The department of English offers basic service courses in composition and literature for all students at the College. These courses emphasize writing and analytical skills and cultivate an appreciation of literature in all its variety. A major in English for the bachelor of arts degree has proved to be an excellent preparation for students who plan to enter business and industry, for students who plan to pursue graduate studies in English and for students who plan to enter professional schools such as law and medicine. Graduates of this program are in such widely diverse occupations as personnel relations. advertising, publishing, sales management, mass communications, and college teaching. Majors in English are expected to exhibit skills in writing, organization and creativity. and they are expected to develop a perception of and appreciation for the human values that grow out of the study of literature.

A major in English for the bachelor of science in education degree is designed for students who wish to prepare to teach English (Plan B) or English plus another field (Plan A) at the secondary level. With the need for excellence in secondary education so pressing, the English faculty work to develop in B.S.E. majors an informed enthusiasm for and dedication to teaching composition and literature so that they in turn will prepare their students well for college and for life.

A minor in English is an excellent choice for students who want supplementary training in English skills, logical thinking, and literary knowledge. Students who wish to minor in English should arrange a coherent sequence of courses in consultation with the departmental adviser for minors. Students should choose courses on the basis of their backgrounds, their major programs and, above all, their interests.

The department also offers its majors and other students opportunities to use their talents and pursue their interests through such organizations as the English Club and Sigma Tau Delta Honor Society, through publications like "The Winged Lion," and in projects like English Field Day.

Core Curriculum requirements in Humanities and Fine Arts can be met with the courses listed on page 35 under Area 2, section B and C. English 101 is a prerequisite to all courses except English 80 and 111. English 102 or 111 is a prerequisite to all 300-400 level English courses. The department urges all students to complete English 101 and 102 in their freshman year.

Bachelor of Arts with a Major in English

Foreign Language)	Semeste uirements (p. 35) 51* anguage (four courses equirements	45
	Modern Grammar	100
Eng 400	History of the English	
One course	Language e from Eng 216, 310,	3
	313 and 315	3
English	Electives**	36
Electives		29
		128***

*Two of the English courses listed under Area 2, sections B and C on page 35 satisfy both six of the 51 hours required for the Core Curriculum and six of the 36 hours of English electives required for the major.

**Must be beyond freshman composition and include at least 12 hours at the 300-400 level. The student also will need to satisfy the computer literacy requirement as determined by the English department.

***Must include at least 40 upper division (300 - 400 level) hours.

Bachelor of Science in Education with a Major in English

OR

Grades 7-12 Certification

Plan A One of Two Teaching Fields

	Semester I	Hours
Core Requ	irements (p. 35) 51*	42
English Re	equirements	33
Eng 301	Modern Grammar	3
Eng 319	Composition for Teacher	s3
Eng 330	Literature for Adolescent	s3
Eng 400	History of the	
	English Language	3
Eng 216	Creative Writing	
OR		
Eng 310	Professional Writing	
OR		
Eng 313	Technical Writing	

Eng 315 Exposition	3
English Literature**	6
American Literature**	6
World Literature**	3
English Elective***	3
Education Certification Requ	irements
(p. 115-127)	37
Second Teaching Field (som	e fields
exceed 30 hours)	30
	142

*Six hours of literature from Area 2, sections B and C plus the required Psychology 100 satisfy Core Curriculum requirements.

**A list of courses which fulfill these requirements is available in the English department.

***Must be beyond freshman composition. The student also will need to satisfy the computer literacy requirement as determined by the English department.

Bachelor of Science in Education with a Major in English

Grades 7-12 Certification
Plan B Single Teaching Field

	Semester H	lours
Core Requ	irements (p. 35) 51*	42
	equirements	42
Eng 301	Modern Grammar	3
Eng 319	Composition for	
建 语言数 3a	Teachers	3
Eng 330	Literature for Adolescents	3
Eng 400	History of the	
	English Language	3
Eng 216	Creative Writing	
OR		
Eng 310	Professional Writing	
OR		
	echnical Writing	
OR	and and the same at the same at	_
Eng 315 Ex		3
English Lite		6
American L		6
World Litera		3
English Ele		2
to 115 10	Certification Requiremen	
(p. 115-127 Electives		37
Liectives		4
		128

*Six hours of literature from Area 2, Sections B and C plus the required Psychology 100 satisfy Core Curriculum requirements.

**A list of courses which fulfill these requirements is available in the English department.

***Must be beyond freshman composition. The student also will need to satisfy the computer literacy requirement as determined by the English department.

58 / English

Minor in English

minion in Linguis	
Semester	Hours
Eng 216, 310 or 315	3
Eng courses at the 300-400 level Eng Electives (beyond freshman	9
composition)	9 21 *

*Should be chosen in consultation with an adviser in the English department.

For additional information contact: Dr. Stephen Spector Office: Hearnes Hall 314 Phone: 625-9535

Suggested Order of Study

Bachelor of Arts Major Code 1501 **English Major**

Freshman Year

1st Semester		
Course		Hour
CORE	[Eng 101 Comp I]	3
CORE	[Hist 110 or 120 U.S. Hist]	3
CORE	[Foreign Language]	3
CORE	[Math 110 or equivalent]	3
CORE	[HPER 101 Physical Activity	ty] 1
Psy 120	College Orientation	1
1 09 120	College Challenge	14

2nd Semester

CORE	[Eng 102 Comp II]	3
		_
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Foreign Language]	3
Eng	Elective	3
CORE	[Hist 110, 120 or	
	320 U.S. History]	3
		15

Sophomore Year

ist Semester		
CORE	[Foreign Language]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Bio 101 General Biology]	4
CORE	[HPER 103 Lifetm Wellness]	2
Eng 310	Prof Wrtng or Eng Elective	3
	1	5

2nd Samester

ZIIU Sellieste		
CORE	[Foreign Language]	3
Eng	Elective	3
CORE	[Phys 100 Physical Science]	5
CORE	[Psy 100 or Soc 110]	3
Eng 216 or 3	15 or English elective	3
- 3		17

Junior Year		
1st Semester		
Eng	Elective	3
Eng 301	or Eng Elective	3
CORE	[Econ 180 Amer Econ Sys]	3
Electives	[Minor]	9
2.00.1100	Carlo Dark Dear Total	18

2nd S	Sem	ester

Eng 400	History of the Eng Lang	
OR		
Eng	Elective	3
Eng	Elective	3
CORE	[Art 110, Mus 110 or Th 110]	3
Elective	[Minor]	6
		15

Senior Year

1st Semes	ter	
Eng	Electives	9
	Elective [Minor]	6
CORE	[International Cultural Stu]	3
	ngalma A a Ma	18

and Competer

Eng	Electives	9
Elective	[Minor]	9
2.000		18

[Department Recommendations]

Students must choose one course from 216, 310, 313 or 315. Eng 310 is offered fall semesters only; 216, 313 and 315 spring semesters only. Eng 301 is offered fall semesters only; Eng 400 is offered in spring semesters only. Six hours of literature selected from Area 2, sections B and C will satisfy six hours of the Core Curriculum requirements page 35.

For additional information contact:

Dr. Stephen J. Spector Office: Hearnes Hall 314 Phone: 625-9535

Bachelor of Science in Education

Major Code 0842 **English Major Grades 7-12 Certification** Plan A One of Two Teaching Fields

Note: Students following Plan A should consult an adviser in English and the other major to work out an individualized program.

Freshman Year

1st Semester	r	
Course		Hour
CORE	[Eng 101 Comp I]	3
Psy 100	General Psychology	3
CORE	[Hist 110 or 120 U.S. Hist]	3
CORE	[Math 110 or equivalent]	3
CORE	[HPER 101 Physical Activi	ty] 1
Psy 120	College Orientation	1
CORE	[Econ 180 Amer Econ Sys] 3
		17

2nd Semester

Lila Comoci	01	
CORE	[Eng 102 Comp II]	3
CORE	[Lit Survey: Eng/Amer/World]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Bio 101 General Biology]	4
CORE	[Art 110, Mus 110 or Th 110]	3
Educ 100	Orientation to Educ I	1
		7

Sophomore Year 1st Samester

13t Selliestel		
Take C-Base		
CORE	[Area 2 C: Eng, Amer, World	Lit
OR		
Eng 150	Intro to Literature	
OR		
Eng 305	Short Story	3
Eng	[Eng, Amer or World Lit]	3
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[Phys 100 Physical Science]	5
Psy 301	Adolescent Psychology	3
Educ 200	Orientation to Educ II	1
	1	7

2nd Semester

Apply for a	dmission to teacher education	durina
		dainig
first six wee	eks of the semester.	
Eng	[Eng, Amer or World Lit]	3
Eng	[Eng, Amer or World Lit]	3
Psy 302	Exceptional Child	2
Psy 310	Educational Psychology	3
CORE	[Comm 100 Oral Comm]	3

[Hist 110, 120 or 320]

Junior Year

CORE

ouille	n i cui	
Pass	media	competencies.

Modern Grammar	3
or Eng Elective	3
Microteaching	2
Ped Theo Meth & Prac	4
Computer Software (opt.)	2
Classroom Management	2
	16
	or Eng Elective Microteaching Ped Theo Meth & Prac Computer Software (opt.)

2nd Semester

Life Collicoto.	
Eng 400 Hist of Eng Language	3
Eng 216 or 315	3
Eng 330 Lit for Adolescents	3
	9

Senior Year

Apply for admission to student teaching. All course work must be completed except for professional semester courses.

Electives

1st Semester

Eng

Comp for Teachers [Intern'l Cultural Stu]	3 3 15
er	
Tching Eng in Sec Sch	2
Student Teaching	8
Foundations	2
Critical Issues	2
Indiv Curriculum Dev (2)	
Intro to Counseling** (3)	
Meas & Eval (2)	2-3
Reading in Sec School*	2
	18-19
	Intern'l Cultural Stu] er Tching Eng in Sec Sch Student Teaching Foundations Critical Issues Indiv Curriculum Dev (2) Intro to Counseling** (3) Meas & Eval (2)

*May be taken any semester after completing the junior block.

**Offered at night only. Must be taken the semester prior to student teaching.

[Department Recommendations]

Foreign Languages / 59

For additional information contact: Dr. Stephen Spector Office: Hearnes Hall 314 Phone: 625-9535

Bachelor of Science in Education English Major Plan B Single Teaching Field Grades 7-12 Certification

Freshman \	Year	
1st Semeste	er	
Course		Hour
CORE	[Eng 101 Comp I]	3
Psy 100	General Psychology	3
CORE	[Hist 110 or 120]	3
CORE	[Math 110 or equiv]	3
CORE	[HPER 101 Physical Activity	ty] 1
Psy 120	College Orientation	1
CORE	[Econ 180 Amer Econ Sys] 3
		17

Zilu Semeste		
CORE	[Eng 102 Comp II]	3
CORE	[Lit Survey: Eng/Amer/World]	3
CORE	[Psy 100 Gen Psychology]	3
CORE	[Bio 101 General Biology]	4
CORE	[Art 110, Mus 110 or Th 110]	3
Educ 100	Orientation to Educ I	1
	1	7

1st Semester		1
Take C-Base	test.	1
CORE	[Area 2-C: Eng/Amer/World]	3
Eng	[Eng, Amer or World Lit]	3
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[Phys 100 Physical Science]	5
Psy 301	Adolescent Psychology	3
Educ 200	Orientation to Educ II	1

2nd	Semester
-----	----------

Sophomore Year

Apply for admission to teacher education during first six weeks of the semester.

III'SL SIX WEE	eks of the semester.	1980	
Eng	[Eng, Amer or World Lit]	3	
Psy 302	Exceptional Child	2	
Psy 310	Educ Psychology	3	
CORE	[Comm 100 Oral Comm]	3	
CORE	[Hist 110, 120 or 320]	3	
		14	

Junior Year

Pass media competencies.

1st Semeste Eng 301	Modern Grammar	3
Eng 310	or Eng elective	3
Educ 329	Ped Theo Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Educ 401	Computer Software (opt.)	2
		16

2nd Semeste	er
Eng 400	History of Eng Lang
Eng 216	or 315 or Eng Elective
Eng 330	Lit for Adolescents
Eng	Eng, Amer or World Lit
Flective	

3

3

3 3 15

Senior Year

Educ 422

Apply for admission to student teaching. All course work must be completed except for Professional Semester courses.

1st Semester Eng Eng 319 CORE	Flectives Comp for Teachers [International Cultural Stu]	9 3 3 15
2nd Semeste	er	
Educ 332	Tching Eng in Sec School	2
Educ 462	Student Teaching	8
Educ 402	Foundations	2
Educ 432	Critical Issues	2
Educ 412	Indiv Curriculum Dev (2)	
OR		
Educ 420	Intro to Counseling (3)**	
OR		
Psy 412	Meas & Eval (2)	2-3

*May be taken any semester after completing the junior block.

Reading in Sec School'

18-19

**Offered at night only. Must be taken the semester prior to student teaching.

For additional information contact: Dr. Stephen Spector Office: Hearnes Hall 314 Phone: 625-9535

Foreign Languages and Literatures

Webster Hall 353, 625-9580

Faculty Massa - Head, Bodon, Carter, Crawford, Kumbier, Peterson, Policarpo

Once it was simply said that fluency in a second language would be a valuable social and business asset. Now, however, a second language is deemed a necessity in solving many of the world's problems of this and the next century. The problems, we have learned, have their beginnings in understanding one another's words, ideas, cultures and beliefs. For business, foreign language skills have become an advantage, as The Wall Street Journal in a 1990 editorial said: "American managers with language skills open more doors." And The New York Times wrote: "American ignorance of other tongues has been hurting American business executives...."

In a college with an international mission, it becomes the task of the department of communications and its faculty in foreign languages to help students achieve communications skills in a non-native language.

To that end, the department has structured its foreign language offerings on a proficiency-based system of instruction so that students who enroll in a course will know at what level of general language proficiency they may begin and at what level they will end. Language study becomes, therefore an extremely practical tool.

By proceeding through a sequence of courses at the 100-and 200-level, students may prepare themselves for study at the Advanced level of language usage and then by further courses, combined with foreign study, achieve an Advanced Plus ability in language. This Advanced Plus proficiency will permit a student to perform successfully an internship abroad and during such an internship, even greater language proficiency may be developed.

A major in Spanish permits an in-depth study of the cultural heritages of various Hispanic civilizations. Extensive study in any of the languages offered, however, when combined with majors in business, political science or communications, as some examples, is especially valuable for students of the 1990s. Whether the students' interests are in the European community, the booming tourism profession, Pacific Rim trade or international politics, they will wish to develop a high level of proficiency in a foreign language.

For all students, the department provides opportunities for study abroad. The department also offers advice concerning the role of language study in career planning. Whether enrolled or not in an international program, students may wish to examine the possibilities offered by foreign language study in enriching their careers.

Students who have had no previous foreign language training are advised to enroll in a 101 course. Students with one year of high school foreign language classes also should enroll in a 101 course. Students who had two years of a language in high school may enroll in a 102 course of the same language, if they received at least a "B" in the high school language. Students who had three or four years of high school foreign language study may enroll in a 203 course in the same language, provided their high school grades were a "B" average in that language. Students who may have attained a proficiency greater than that offered in a 203 course will be placed appropriately after an assessment is made of their skills. In all cases, students should arrange with their instructors to "test-out" of lower-numbered courses to receive credit.

60 / Foreign Languages

Questions concerning the foreign language program should be addressed to the department of communications.

Bachelor of Arts with a Major in Spanish

	Semester	Hours
Core Requ	irements (p. 35)	51
Computer	Literacy Requirement:	
Comp 105	Intro to Microc Use	3
Spanish R	equirements	40
Span 204 Span	Intermediate Spanish II Electives chosen with	3
	approval of Spanish adv At least 12 hrs. must be	iser.
	upper-division	37
Electives		34

*Must include at least 40 upper-division (300-400 level) hours.

Bachelor of Science in Education with a Major in Spanish **Grades K-12 Certification**

Plan A One of Two Teaching Fields

Semester Hours

	· / CONTROLOT	louis
Core Requ	irements (p. 35)51*	48
	iteracy Requirement:	
Educ 401	Use of Computer Softw	are
	in the Classroom	2
Spanish Re	equirements**	32
Span 101	Beginning Spanish I	3
Span 102	Beginning Spanish II	3
Span 203	Intermediate Spanish I	3
Span 204	Intermediate Spanish II	3
Span 301	Readings and	
	Conversation	3
Span 302	Readings in Hispanic	
	Literature and Culture	3
Span 303	Spanish Syntax I	
OR		
Span 304	Spanish Phonology	2
Span 320	Spanish Syntax II and	
	Composition	3
Span 321	Peninsular Literature	
	(to Calderon)	
OR		
Span 322	Peninsular Literature	
	(to Present)	3
Span 333	Survey of Spanish-	
	American Literature I	
OR		
Span 334	Survey of Spanish-	
	American Literature II	3
Span 400	20th Century Spanish	
	Drama	3

Education Certification Requirements

Second Teaching Field (some

fields exceed 30 hrs.)

38-39

150-151***

30

(p. 115-127)

*Required courses in psychology satisfies the requirements for three hours of the Core Curriculum.

A candidate for a degree under Plan A must also demonstrate proficiency level of "Advanced Plus" in Spanish. This level must be attained prior to doing student teaching. *A minimum of 128 hours required for a degree, but the exact number depends on the second field. In this example, the total number of hours is greater than 128.

Bachelor of Science in Education with a Major in Spanish

Grades K-12 Certification

Plan B Single Teaching Field

Semester Hours

Core Requirements (p.35)51* **Computer Literacy Requirement:** Educ 401 Use of Computer Software

	in the Classroom	
Spanish R	equirements**	3
Span 101	Beginning Spanish I	3
Span 102	Beginning Spanish II	3
Span 203	Intermediate Spanish I	3
Span 204	Intermediate Spanish II	3
Span 301	Readings and	
	Conversation	3
Span 302	Readings in Hispanic	
	Literature and Culture	3
Span 303	Spanish Syntax I	
OR		
Span 304	Spanish Phonology	2
Span 320	Spanish Syntax II	
	and Composition	3
Span 321	Peninsular Literature	
	(to Calderon)	
OR		
Span 322	Peninsular Literature	
	(to Present)	3
Span 333	Survey of Spanish-	
	American Literature I	
OR		
Span 334	Survey of Spanish-	
	American Literature II	3
Span 400	20th Century Spanish	
	Drama	3
Span	Electives	6
Education	Certification Requireme	nts
(p. 115-12		38
Electives		-

*Required courses in psychology and intercultural communication satisfy requirements for six hours of the Core Curriculum.

**A candidate for a degree under Plan B must also demonstrate proficiency level of "Advanced Plus" in Spanish. This level must be attained prior to doing student teaching.

Minor in Spanish

A minor in Spanish requires a student attain a proficiency level of "Advanced Plus" and have 15 hours of approved classes in Hispanic literature at the upper-division level.

Minor in French

A minor in French requires 18 hours of courses in French of which six must be upper division.

Minor in German

A minor in German requires 18 hours of courses in German of which six must be upper division.

Suggested Order of Study

Bachelor of Arts Major Code 1105 Spanish Major

Freshman Year

i icommuni i	cui	
1st Semeste	r	
Course		Hour
Span 101	Beginning Spanish I	3
CORE	[Eng 101 Comp I]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Math 110 Intro to Col Math	1] 3
CORE	[HPER 103 Lifetm Wellnes	s] 2
CORE	[Humanities and Fine Arts]	3
Psy 120	College Orientation	1
		18

2nd Semest	er	
Span 102	Beginning Spanish II	3
CORE	[Eng 102 Comp II]	3
CORE	[Humanities and Fine Arts]	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[HPER 101 Physical Activity	11
		15

Sophomore Year

1st Semester Span 203 CORE CORE CORE CORE	Intermediate Spanish I [Humanities and Fine Arts] [Bio 101 General Biology] [Hist 110 U.S. History] [PSc 120 Gov't: U.S./Sta/Loc]	
		1

2nd Semest	ter	
Span 204	Intermediate Spanish II	3
CORE	[Psy 100 or Soc 110]	3
Comp 105	Intro to Micro Use	3
CORE	[Hist 320 U.S. History]	3
Elective*		3-6
		15-19

Junior Year

1st Semester		
Span 301	Readings and Conversation	3
CORE	[Econ 180 Amer Econ Sys]	3
Electives*	-	10

Geography, Geology / 61

	2nd Semeste Span 302 Span 320 Span 322 Electives	er Rdngs in Hisp Lit & Culture Span Syntax II & Comp Peninsular Literature	3 3 6 15
	Senior Year 1st Semester Span 303 Span 321 Span 333 Span 304 Electives*	Spanish Syntax I Peninsular Literature Survey of Span-Amer Lit I Spanish Phonology	2 3 3 2 5 15
	Span 334 Span 400 Electives*	Survey of Span-Amer Lit II 20th Cen Span Drama 10- 16-	
	with the stud	ould be chosen in consultatic ent's major adviser and with t aculty member in a minor field is chosen.	he
J	[Department	Recommendations]	
	Mr. Richard	ster Hall 362	
	Major Cod Spanish M Grades K-	Major (Plan B) -12 Certification aching Field	on
	1st Semester		lours
	Course Span 101 CORE CORE CORE CORE CORE Psy 120 Educ 100	Beginning Spanish I [Eng 101 Comp I] [Comm 100 Oral Comm] [Math 110 Intro to Col Math] [HPER 103 Lifetm Wellness College Orientation Orientation to Educ I	3 3 3
	2nd Semeste Span 102 Psy 100 CORE CORE CORE CORE	Beginning Spanish II Beginning Spanish II General Psychology [Eng 102 Comp II] [HPER 101 Physical Activity [Humanities and Fine Arts] [Hist 110 U.S. History]	3 3 3] 1 3 3 16
	Sophomore 1st Somestor		
	1st Semester Take C-Base Span 203 Educ 200 CORE CORE CORE		3 1 3 3 5 4

Developmental Psychology

Psy 305

Apply for adr Span 204 Psy 310 CORE CORE Educ 302	Inission to teacher education. Intermediate Spanish II Educational Psychology [Humanities and Fine Arts] [Bio 101 General Biology] The Exceptional Child	3232
1st Semester		
Span 301 Comm 305 Educ 329 Educ 321 Educ 423 Elective*	Readings and Conversation Intercultural Communication Ped Theo, Meth & Prac Microteaching Classroom Management	334883
		17
2nd Semeste	er	
Span 302 Span 320 Span 322 Geog 412 Span 400 Educ 422	Rdngs in Hisp Lit & Culture Span Syntax II & Comp Peninsular Literature Geog & Culture of Lat Amer 20th Cent Span Drama Rdng in Sec Sch	3 3 3 3 3 2 7
Senior Year		

Se	nic	or Y	ear

2nd Semester

Apply for student teaching. All course work must be completed except for Professional Semester courses.

1st Semeste	r	
Span 303	Spanish Syntax I	2
Span 333	Survey of Span-Amer Lit I	3
CORE	[Hist 320 U.S. History]	3
CORE	[Econ 180 Amer Econ Sys] 3
Educ 412	or Educ 420** or Educ 423	
	or Psy 412	2-3
Flectives*		4

17-18

2nd	Semester
2110	Semester

Lina oo	1110010			
Educ 40	02	Foundations of Educ	2	
Educ 43	32	Critical Issue in Educ	2	
Educ 34	45	Tchng For Lang in Sec Sch	2	
Educ 40	01	Use of Comp Sftwr in Clsrm	2	
Educ 46	62	Student Teaching	8	
			16	

*Electives should be chosen in consultation with the student's major adviser and with the advice of a faculty member in a minor field of study, if one is chosen.

**Must be taken prior to the student teaching semester.

[Department Recommendations]

For additional information contact: Mr. Richard W. Massa

Office: Webster Hall 362 Phone: 625-9372

Geography

Webster Hall 241, 625-9565

Faculty Tate - Head, Sale Geography offers students a variety of employment possibilities. These range from positions in secondary education to opportunities in government and business plan-

Though a major is not now offered, sufficient hours are available to meet social studies teacher certification standards. Students may, with the supervision of a social science adviser, take a geography minor consisting of 18 semester hours.

Minor in Geography

	Semester H	ou	rs
Geog 211	Regions and Nations		3
Choose 6	hours from:		6
Geog 311	Political Geography	3	
Geog 322	Economic Geography	3	
Geog 412	Geography and Culture		
	of Latin America	3	
Geog 422	Geography of the U.S.		
	and Canada	3	
Geog 498	Seminar in Geography	3	
Choose 9	hours from:		9
Draf 230	Survey and Mapping	3	
CJAD 210	Basic Photography	3	
Comp 115	Computing I	3	
Geol 300	Environmental Geology	3	
PSc 322	International Law	3	
PSc 332	Comparative Government	:	
	Latin America 3		
Soc 155	Physical Anthropology		
	and Archaeology	3	
Soc 361	The Study of Populations'	3	
Soc 402	The Community*	3	
			18

*See Prerequisites

Geology

Reynolds Hall 210, 625-9376

Baiamonte - Head, Knapp **Faculty**

Geology courses are used to supplement other major areas of study and for state certification for teaching general science at the 7-12 grade levels.

History

Webster Hall 241, 625-9564

Faculty Tate - Head, Holman, Laas, Markman, Sale, Smith, Tannenbaum, Teverow

A bachelor of arts degree with a major in history prepares students for entering career positions in business, governmental and community service fields and for entry into graduate programs in the social sciences and law. A bachelor of science in education with a major in social studies - history emphasis - certifies a student to enter professional teaching at the secondary school level. A minor in history is available for students majoring in other disciplines. Also see page 77 for a social sciences minor or the social studies for secondary education minor.

Core Curriculum requirements and Missouri statute requirements are met by History 110 and History 120 or 320. History 130 or 140 may also be used to meet certain Core Curriculum requirements.

History 110 or 120 is a prerequisite for all upper division U. S. history courses. History 320 substitutes for 120, but may not be used to fulfill upper division history requiments.

History 130 or 140 is a prerequisite for all upper division European or East Asian history courses.

Hist 130 or 140 cannot be taken as a corequisite with any upper division European or East Asian history course.

Bachelor of Arts with a Major in History

Semester Hours

3

	Ochlosteri	louis
	irements (p. 35) 51* Literacy Requirement -	42
	, ,	
determined	d by Social Sciences	
Departmen	nt	2-3
-	nguage (four courses in	
one langua	age)	12
	quirements	33
Hist 110	U. S. History 1492-1877	3
Hist 120	U. S. History 1877-Present	
OR	til hard are to be seen a co	
Hist 320	U. S. History 1877-Present	3
Hist 130	Western Civilization to 1660	3
Hist 140	Western Civilization	
	Since 1660	3
Hist 497	Seminar in Historical	
	Research**	
OR		
Hist 499	Independent Study	

(Internship)**

Hist	Upper Division U.S.**	6
Hist	Upper Division European	
	or East Asian**	6
Hist	Upper Division Electives*	*6
Electives	3	8-39
	12	28***

*Required History courses satisfy Major requirements and 9 hours of Core Curriculum.
**See Prerequisites.

***Must include at least 40 upper division (300-400 level) hours.

Bachelor of Science in Education with a Major in Social Studies

Grades 7-12 Certification
History Emphasis
Plan B Single Teaching Field

	STATE OF THE PROPERTY OF THE PARTY OF THE PA		
	Semester H	ours	
Core Regu	irements (p. 35) 51*	33	
	quirements	33	
Hist 110	U.S.History 1492-1877	3	
Hist 120	U.S. History 1877-Presen	t	
OR			
Hist 320	U.S. History 1877-Presen	t3	
Hist 130	Western Civilization to 1660	3	
Hist 140	Western Civilization		
	Since 1660	3	
Hist 497	Seminar in Historical		
	Research**		
OR			
Hist 499	Independent Study		
	(Internship)**	3	
Hist	Upper Division U.S.**	6	
Hist	Upper Division European	3	
Hist	Upper Division East Asian*		
Hist	Upper Division Electives*		
	Requirements	21	
PSc 120	Gov't: U.S./State/Local	3	
PSc	Upper Division Elective	3	
Soc 110	Introduction to Sociology	3	
Soc	Upper Division Elective	3	
Geog 211	Regions and Nations	3	
Geog	Upper Division Elective	3	
Econ 180	Amer Econ System	3	
Education Certification Requirements			
(p. 115-127	()	9-40	
Elective		1-2	
		128	

*Required history, political science, sociology and economics courses satisfy major requirements and 18 hours of Core Curriculum.

**See Prerequisites

Minor in History

Hist 110	Semeste U.S. History 1492-187	
Hist 120 OR	U.S. History 1877-Pres	
Hist 320	U.S. History 1877-Pres	sent3
Hist 130 OR	Western Civilization To	1660
Hist 140	Western Civilization	
	Since 1660	3
Hist	Upper Division U.S. Eleci	ve* 3
Hist OR	Upper Division Europe	an*
Hist	Upper Division East	
	Asian Elective*	6
		18

*Must be chosen with approval of history adviser.

Minor in Social Studies for Secondary Education

See page 77.

Suggested Order of Study

Bachelor of Arts Major Code 2205 History Major

Freshman Year 1st Semester Course Hours Hist 110 U.S. History 1492-1877 3 CORE [Eng 101 Comp I] 3 CORE [Math 110 Intro to Col Math] 3 CORE [HPER 103 Lifetm Wellness] CORE [HPER 101 Physical Activity] 1 CORE [Humanities and Fine Arts] 3 Psy 120 College Orientation 16

2nd Semeste	er	
Hist 120	U.S. History 1877-Present*	
OR		
Hist 320	U.S. History 1877-Present*	3
CORE	[Eng 102 Comp II]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Bio 101 Gen Biology]	4
CORE	[Comm 100 Oral Comm]	3
		16

Sophomore Year

Sophomore	Teal	
1st Semester		
Hist 130	Western Civilization to 1660	3
Foreign Lang	juage	3
CORE	[Eng Literature]	3
Elective		3
CORE	[Econ 180 Amer Econ Sys]	3

Mathematics / 63

	10000
2nd Semester	
Hist 140 West Civil Since 1660	3
Foreign Language	3
CORE [Soc 110 Intro to Sociology]	3
CORE [Phys 100 Fund of Phys Sci	5
CORE [Computer Literacy course selected with adviser's	
approval]	0
approvaij	17
	la vo
Junior Year	
1st Semester	
Hist Upper Div U.S. (not 320) CORE [Humanities and Fine Arts]	3
CORE [Humanities and Fine Arts] CORE [International Cultural Stu]	3
Foreign Language	3
Elective [A minor is suggested]	3
	15
and Competer	
2nd Semester Hist Upper Division U.S. (not 320)	
Foreign Language	3
Electives [A minor is suggested]	9
	5
Senior Year	
1st Semester Hist Upper Div Fur or F. Asian	
Ulat U Di Ti Ti Asian	3
	9
	5
2nd Semester Hist Upper Div Fur or F Asian	
Hist Upper Div Eur or E. Asian Upper Div Elective (not 320)	3
Hist 497 Seminar in Historical Research	h
OR OR	
Hist 499 Independent Study**	3
Electives [A minor is suggested]	7
Sales and the sales are the sa	3
*Also meets a Core Curriculum requirement	
**See Prerequisites	
[Department Recommendations]	
For additional information contact:	
Dr. Robert Markman	
Office: Webster Hall 243	
Phone: 625-9740	
1 110110. 025-37-40	
Bachelor of Science in Education	
Major Code 0843	
Social Studies Major	
(Plan B) Single Teaching Field	
Grades 7-12 Certification	
History Emphasis	
Freshman Year	
1st Semester	
Course Hou	rs
Hist 110 U.S. History 1492-1877* 3	
CORE [Eng 101 Comp I] 3	
Psy 100 General Psychology 3 CORE [Math 110 Intro to Col Math] 3	
Psy 120 College Orientation 1	
Educ 100 Orientation to Education I 1	
CORE [Comm 100 Oral Comm] 3	
17	

2nd Semest	er	
Hist 120	U.S. History 1877-Present*	
OR		
Hist 320	U.S. History 1877-Present*	3
CORE	[Eng 102 Comp II]	3
PSc 120	Gov't: U.S./State/Local*	3
CORE	[Bio 101 General Biology]	4
CORE	[HPER 101 Activities]	1
Elective		3
		17

Sophomore Year 1st Semester Take C-Base test. Hist 130 Western Civilization to 1660 3 CORE [Eng Literature] CORE [HPER 103 Lifetm Wellness] 2 CORE [Phys 100 Fund of Phys Sci] 5 Orientation to Education II Educ 200 Psv 301 Adolescent Psychology 3 17 2nd Semester

Apply for admission to Teacher Education. Hist 140 Western Civil 1660-Present 3 Geog 211 Regions and Nations Soc 110 Intro to Sociology* CORE [Humanities and Fine Arts] Psv 310 Educational Psychology 2 Educ 302 **Exceptional Child** 2 16

Junior Year 1st Semester Pass media competencies. Hist Upper Div U.S. (not 320) 3 Econ 180 Amer Econ System 3 Educ 329 Ped Theo Meth & Prac Microteaching Educ 321 2 Educ 401 Use of Comp Sftwr in Clsrm 2 Educ 423 Classroom Management 16

2nd Semester Hist Upper Div U.S. (not 320) 3 Hist Upper Div Eur or E.Asian 3 Soc 342 Comparative Cultures 3 Hist Upper Div Elective (not 320) 3 **PSc** Upper Division Elective 3 15

Senior Year

1st Semester

Apply for admission to student teaching. All course work must be completed except Professional Semester courses.

HIST	Upper DIV Elective (not 320)	3
Hist	Upper Div Eur or E. Asian	3
Hist 497 OR	Seminar in Historical Resea	arch
Hist 499	Internship	3
Geog	Upper Division Elective	3
CORE	[Humanities and Fine Arts]	3
Educ 422	Rdng in Secondary School	2
		17

2nd Semester	
Educ 334 Tchng Soc Sci in Sec Sci	h 2
Professional Semester	
	16

See pages 115 -127 for specific education department requirements.

*Also meets a Core Curriculum requirement.

For additional information contact:

Dr. David Tate

Office: Webster Hall 245

Phone: 625-9565

Mathematics

Reynolds Hall 210, 625-9376

Faculty Martin - Head, Adkins, Cassens, Curtis, Elick, Harmon, Jolly, Livingston, Miller, Mulkey, Noel, Thuong, Vazquez

In an increasingly technological society, applications of mathematics continue to increase in variety. Persons with quantitative ability and training are in high demand. Career opportunities exist in a diversity of fields such as engineering, computer science, economics, statistics, operations research, management and education. Missouri Southern graduates are enjoying success in all of these areas. Some graduates choose to begin careers immediately upon graduation; others choose to continue their education in graduate school. The curriculum is designed to prepare students for either path. The computational mathematics option allows a student to obtain a double major in mathematics and computer science.

For the student wishing to prepare for a career in engineering, the mathematics department and the physical science department have worked in close cooperation with the staff at the University of Missouri-Rolla to develop a "Model Program for Engineering Transfers." Students may obtain a copy of this pamphlet from the department head. The program consists basically of two years at Missouri Southern and two years at Rolla. Naturally, time spent at either institution varies depending on the student's individual rate of progress.

Core Curriculum requirements for the bachelor's and the associate of arts degree can be met with any mathematics course numbered 110 or above. Note the limitations on Math 111 in the course descriptions.

Core Curriculum requirements for the associate of science degree can be met with any mathematics course numbered 030 or above.

For students majoring in mathematics or mathematics education only courses in which they have earned a grade of "C" or above can be used to satisfy departmental mathematics requirements.

64 / Mathematics

Bachelor of Science with a Major in Mathematics

wajor in	Mathematics		
	Semester		
Core Requ	irements (p. 35) 51*	43	
Mathemati	cs Requirements	39	
Math 150	Calculus with Analytic		
	Geometry I**	5	
Math 250	Calculus with Analytic	_	
	Geometry II**	5	
Math 260	Calculus with Analytic		
	Geometry III**	5	
Math 300	Fundamentals of		
	Mathematical Thought*	* 3	
Math 342	Abstract Algebra**		
OR		100	
Math 351	Linear Algebra**	3	
Math	Electives numbered		
	above 320***	18	
Supportin	g Requirements	18	
Physics ar	nd/or chemistry electives-		
must include at least one course			
from each (excluding Chem 100,			
Phys 100,	Phys 120, Phys 140,	4-	
Phys 180,	Phys 300)	15	
	(or above)	3	
Electives		28	
		128****	

*Required mathematics, chemistry and physics courses satisfy major requirements and 8 hours of the Core Curriculum.

**See Prerequisites

***Must include one from Math 350, 371, 431, 452 to satisfy computer literacy requirement.

****Must include at least 40 upper division (300 - 400 level) hours.

Only courses in which a student has earned a grade of "C" or above can be used to satisfy departmental mathematics requirements for the major or minor in mathematics.

Bachelor of Science with a Major in Mathematics

Computational Mathematics Option*

	Semester Ho	urs
Core Requi	rements (p. 35) 51**	43
Mathematic	s Requirements	33
Math 150	Calculus with Analytic	_
	Geometry I***	5
Math 250	Calculus with Analytic	4
	Geometry II***	5
Math 260	Calculus with Analytic	_
	Geometry III***	5
Math 300	Fundamentals of	•
	Maille Halloa Hough	3
Math 350	Introduction to Numerical Analysis***	
OR	and the first of the second second	_
Math 431	Numerical Analysis***	3
Math 351	Linear Algebra***	3
Math 371	Introduction to Operations	
	Research (WI)***	3

Math	Electives numbered	200
	above 320***	6
CIS	Core	33
Comp 110	Programming I	3
Comp 210	Block Structured	
	Programming	3
Comp 234	Business Data Processin	g
	Techniques (COBOL)	3
CIS 335	Programming in C	3
CIS 345	Computer Networks	3
CIS 350	Data Structures	3
CIS 360	Computer Graphics	3
CIS 425	Database Design and	3
	Implementation (WI)	3
CIS 430	Introduction to Artificial	3
	Intelligence	3
CIS 450	Operating Systems (WI) Electives numbered	3
CIS	above 305	3
0		13
Supportin	ng Requirements and/or chemistry electives	
Physics ar	de at least one course fron	n
must inclu	uding Chem 100, Phys 10	0.
Phys 120	Phys 140, Phys 180, and	,
Phys 300)		
Electives		6
Total		128
Iotai		

*This program is the same as the bachelor of science in CIS, computer science (Option 2). See page 143. Students selecting this option will graduate with a double major, mathematics and computer information science.

**Required mathematics, chemistry and physics courses satisfy major requirements and 8 hours of the Core Curriculum.

***See Prerequisites

Only courses in which a student has earned a grade of "C" or above can be used to satisfy departmental mathematics requirements for the major or minor in mathematics.

Bachelor of Science in Education with a Major in Mathematics

Grades 7-12 Certification
Plan A One of Two Teaching Field

Plan A	lan A One of Two Teaching Field					
	Semester H	lours				
Core Requ	Core Requirements (p. 35) 51* 45					
Mathemati	cs Requirements	30				
Math 150	Calculus with Analytic					
	Geometry I**	5				
Math 250	Calculus with Analytic					
	Geometry II**	5				
Math 260	Calculus with Analytic					
	Geometry III**	5				
Math 300	Fundamentals of					
	Mathematical Thought**	3				
Math 332	Geometry**	3				
Math 342 OR	Abstract Algebra**					
Math 351	Linear Algebra**	3				

Math 361 Math	Introduction to Probability** Elective***	3 3
Supportin	g Requirements	3
Comp 110	(or above, substitutes for	
	Educ 401)	3
Education	Certification Requireme	nts
(p. 115-12		39-40
Second te	aching field (some fields	
exceed 30	hours)	30
exceed or	147-14	8****

*Required courses in mathematics and psychology satisfy major requirements and 6 hours of the Core Curriculum.

**See Prerequisites

***Must include one from Math 350, 371, 431, 452 to satisfy computer literacy requirement.

****(varies with 2nd field)

Only courses in which a student has earned a grade of "C" or above can be used to satisfy departmental mathematics requirements for the major or minor in mathematics education.

Bachelor of Science in Education with a Major in Mathematics

Grades 7-12 Certification
Plan B Single Teaching Field

	Semester Ho	ours
Core Requi	rements (p. 35) 51*	40
Mathematic	s Requirements	33
Math 150	Calculus with Analytic	
Watti 100	Geometry I**	5
Math 250	Calculus with Analytic	
	Geometry II**	5
Math 260	Calculus with Analytic	
	Geometry III**	5
Math 300	Fundamentals of	
	Mathematical Thought**	3
Math 332	Geometry**	3
Math 342	Abstract Algebra**	
OR		
Math 351	Linear Algebra**	3
Math 361	Introduction to Probability**	3
Math	Electives numbered	
	above 320***	6
Supporting	g Requirements	1

Supporting Requirements
Physics and/or Chemistry electives - must include courses from both (excluding Chem 100, Phys 100, Phys 120, Phys 140, Phys 180)
Comp 110 (or above, substitutes for Educ 401)

Sequential Continues Sequence 1

Educ 401)	0
Education Certification	Requirements
(p. 115-127)	39-40
Electives	2-3
Licotives	128

Mathematics / 65

							Mathematics	/ 0.
*Required	courses in mathematics, o	chemis-	Junior Yea	r. Sandring - Logiston many		2nd Semest	ter	
try, physic	s and psychology satisfy	major	1st Semest	er		CIS 345	Computer Networks	3
requireme	nts and 11 hours of the Co	re Cur-	Math	Electives**	6	CIS 350	Data Structures	3
riculum.			CORE	[Area 2 Elective]	3	Math 300	Fund of Math Thought	3
**See Prei	requisites			em or Physics Electives*	3-5	CORE	[Psy 100 or Soc 110]	3
	clude one from Math 35	0. 371.	CORE	[PSc 120 Gov't: U.S./Sta/Lo		CORE	[HPER 103 Lifetm Wellness	
	satisfy computer literacy i				15-17	CORE	[Area 2 Elective]	3
ment.	causiy compater meracy i	oquiro	2nd Semes	to.				17
			Math	Electives**	6	Junior Year		
Only cours	es in which a student has	earned	CORE	[Bio 101 General Biology		1st Semeste		
	C" or above can be used to		CORE	[HPER 101 Physical Activ		CIS 430	Intro to Artif Intell	3
	tal mathematics requirem		CORE	[Area 5 Elective]	3	Math 371	Intro Ops Research (WI)	3
	or minor in mathematics		Elective		3	CORE	[Bio 101 General Biology]	4
tion.	or minor in mathematics	cuuca			17	CORE	[Hist 120 or 320 U.S. Hist]	3
1011.						CORE	[Area 2 Elective]	3
			Senior Yea					16
			1st Semeste					
Minor in	n Mathematics		Math Electiv	ves**	6	2nd Semest		
	0	Harris	Electives		9	CIS 425	Database Systems (WI)	3
Anth 150	Semester	Hours			15	Math 350	Intro to Num Analysis	3
Math 150	Calculus with Analytic	_	2nd Sames	tor		Math	Elective**	3
	Geometry I	5	2nd Semest Math Electiv		6	CORE	[Area 5 Elective]	3
Math 250	Calculus with Analytic		Electives	VC3	6	CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3 15
STATE OF	Geometry II	5	Licetives		15			15
/lath	Electives numbered				15	Senior Year		
	above 250*	11	*See require	ements and exclusions on p	age 64.	1st Semeste		
		21		must be approved by math		CIS 450	Operating Sys (WI)	3
At least 6	hours upper division.			,		Math 351	Linear Algebra	3
			[Departmen	t Recommendations]		Chem/Phys		3
						CORE	[Econ 180 Amer Econ Sys]	3
Sugge	tod Order of Ctud		For additio	nal information contact:		Elective		3
SHOOPS	ted Order of Study	/	Dr. J. Larry	Martin				15
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3,8,314	of Science	Fig.	Office: Re Phone: 62	ynolds Hall 212		2nd Semeste		
Bachelor	of Science			ynolds Hall 212		CIS 360	Computer Graphics	3
Bachelor Major Cod	de 1701			ynolds Hall 212		CIS 360 CIS	Computer Graphics Elective	3
Bachelor	de 1701		Phone: 62	ynolds Hall 212		CIS 360 CIS Math	Computer Graphics Elective Elective**	3
Bachelor Major Coo Mathema	de 1701 tics		Phone: 62 Bachelor	ynolds Hall 212 25-9540 of Science		CIS 360 CIS Math CORE	Computer Graphics Elective	3 3
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Grand Semester Course Math 150 Chem 101 CORE CORE CORE CORE CORE CORE CORE CORE	de 1701 tics /ear Calc w/Anal Geo I General Chemistry I [Eng 101 Comp I (WI)] [Area 2 Elective] College Orientation er Calc w/Anal Geo II [Eng 102 Comp II (WI)] General Physics I Programming I [Comm 100 Oral Comm] er Calc w/Anal Geo III [Econ 180 Amer Econ Sys [Hist 110 U.S. History] [HPER 103 Lifetm Wellness s or Chemistry Electives*	5 5 3 3 1 17 5 3 4 3 3 18	Phone: 62 Bachelor Major Coo Computa Freshman 1st Semeste Course Comp 110 Math 150 CORE Chem 101 Psy 120 2nd Semest Comp 210 Math 250 CORE Phys 250 CORE Sophomore 1st Semeste Comp 234 CIS 335 Math 260	Programming I Calc w/Anal Geo II Eng 102 Comp II (WI) General Physical Activ Programming I Calc w/Anal Geo I Eng 101 Comp I (WI) General Chemistry I College Orientation Programming I Calc w/Anal Geo II Eng 102 Comp II (WI) General Physics I [HPER 101 Physical Activ Programming in C Calc w/Anal Geo III	Hours 3 5 3 5 1 17 3 5 3 5 ity] 1 17	*See require *See require **Elective *See require **Electives n [Department For addition Dr. J. Larry Office: Rey Phone: 62: Bachelor Major Cod Mathemat Grades 7- (Plan B) Freshman Y 1st Semeste Course Math 150 CORE	Computer Graphics Elective Elective** [Area 2 Elective] ments and exclusions on pagnust be approved by math ad Recommendations] mal information contact: Martin ynolds Hall 212 5-9540 of Science in Education le 0833 tics Major -12 Certification Single Teaching F ear r Calc w/Anal Geo I [Eng 101 Comp I (WI)]	3 3 3 15 15 on
Bachelor Major Coo Mathema reshman vist Semeste Sourse Math 150 Chem 101 CORE CORE CORE CORE CORE CORE CORE CORE	de 1701 tics /ear Calc w/Anal Geo I General Chemistry I [Eng 101 Comp I (WI)] [Area 2 Elective] College Orientation er Calc w/Anal Geo II [Eng 102 Comp II (WI)] General Physics I Programming I [Comm 100 Oral Comm] *Year Calc w/Anal Geo III [Econ 180 Amer Econ Sys [Hist 110 U.S. History] [HPER 103 Lifetm Wellness s or Chemistry Electives*	5 5 3 1 17 5 3 4 3 3 18 5 3 3 2 5 3 5 3 5 3 3 5 3 3 5 3 3 5 3 5	Phone: 62 Bachelor Major Coo Computa Freshman 1st Semeste Course Comp 110 Math 150 CORE Chem 101 Psy 120 2nd Semest Comp 210 Math 250 CORE Phys 250 CORE Sophomore 1st Semeste Comp 234 CIS 335 Math 260 CORE	eynolds Hall 212 25-9540 For Science de 1702 Ational Mathematics (Control of the programming of the program	Hours 3 5 3 5 1 17 3 5 3 5 11 17 3 5 3 5 3 5 3 5 3 5 3 5 3	*See require *See require *See require *Elective *See require *Electives n [Department For addition Dr. J. Larry Office: Rey Phone: 628 Bachelor Major Cod Mathemat Grades 7- (Plan B) Freshman Y 1st Semeste Course Math 150 CORE Psy 100	Computer Graphics Elective Elective** [Area 2 Elective] ments and exclusions on pagnust be approved by math ad Recommendations] mal information contact: Martin ynolds Hall 212 5-9540 of Science in Education le 0833 tics Major 12 Certification Single Teaching F fear Calc w/Anal Geo I [Eng 101 Comp I (WI)] General Psychology	3 3 3 15 15 Ge 64 Vviser.
Bachelor Major Coo Mathema reshman st Semeste Sourse Math 150 chem 101 CORE SORE SORE SORE SORE SORE Hys 250 CORE Hys 250 CORE ORE ORE SORE SORE SORE Hys 250 CORE Hys 250 COR	de 1701 tics /ear Calc w/Anal Geo I General Chemistry I [Eng 101 Comp I (WI)] [Area 2 Elective] College Orientation er Calc w/Anal Geo II [Eng 102 Comp II (WI)] General Physics I Programming I [Comm 100 Oral Comm] *Year "Calc w/Anal Geo III [Econ 180 Amer Econ Sys [Hist 110 U.S. History] [HPER 103 Lifetm Wellnes s or Chemistry Electives*	5 5 3 1 17 5 3 4 3 3 18 5 3 3 5 3 6 1 8	Phone: 62 Bachelor Major Coo Computa Freshman 1st Semeste Course Comp 110 Math 150 CORE Chem 101 Psy 120 2nd Semest Comp 210 Math 250 CORE Phys 250 CORE Sophomore 1st Semeste Comp 234 CIS 335 Math 260	Programming I Calc w/Anal Geo II Eng 102 Comp II (WI) General Physical Activ Programming I Calc w/Anal Geo I Eng 101 Comp I (WI) General Chemistry I College Orientation Programming I Calc w/Anal Geo II Eng 102 Comp II (WI) General Physics I [HPER 101 Physical Activ Programming in C Calc w/Anal Geo III	Hours 3 5 3 5 1 17 3 5 3 5 ity] 1 17	*See require *See require *See require *Electives *See require *Electives n [Department For addition Dr. J. Larry Office: Rey Phone: 628 Bachelor Major Cod Mathemat Grades 7- (Plan B) Freshman Y 1st Semeste Course Math 150 CORE Psy 100 CORE	Computer Graphics Elective Elective** [Area 2 Elective] ments and exclusions on pagnust be approved by math ad Recommendations] mal information contact: Martin ynolds Hall 212 5-9540 of Science in Education le 0833 tics Major -12 Certification Single Teaching F fear r Calc w/Anal Geo I [Eng 101 Comp I (WI)] General Psychology [HPER 103 Lifetm Wellness	3 3 3 3 15 15 9e 64. Vviser.
Bachelor Major Coo Mathema reshman st Semeste Course Math 150 Chem 101 CORE CORE Sty 120 Ind Semeste Math 250 CORE CORE CORE CORE CORE CORE CORE CORE	de 1701 tics /ear Calc w/Anal Geo I General Chemistry I [Eng 101 Comp I (WI)] [Area 2 Elective] College Orientation er Calc w/Anal Geo II [Eng 102 Comp II (WI)] General Physics I Programming I [Comm 100 Oral Comm] *Year r Calc w/Anal Geo III [Econ 180 Amer Econ Sys [Hist 110 U.S. History] [HPER 103 Lifetm Wellness or Chemistry Electives* 10 er Fund of Math Thought	5 5 3 1 17 5 3 4 3 3 18 5 3 3 2 3-5 6-18	Phone: 62 Bachelor Major Coo Computa Freshman 1st Semeste Course Comp 110 Math 150 CORE Chem 101 Psy 120 2nd Semest Comp 210 Math 250 CORE Phys 250 CORE Sophomore 1st Semeste Comp 234 CIS 335 Math 260 CORE	eynolds Hall 212 25-9540 For Science de 1702 Ational Mathematics (Control of the programming of the program	Hours 3 5 3 5 1 17 3 5 5 ity] 1 17	*See require *See require *See require *Elective *See require *Electives n [Department For addition Dr. J. Larry Office: Rey Phone: 628 Bachelor Major Cod Mathemat Grades 7- (Plan B) Freshman Y 1st Semeste Course Math 150 CORE Psy 100 CORE Educ 100	Computer Graphics Elective Elective** [Area 2 Elective] ments and exclusions on pagnust be approved by math ad Recommendations] mal information contact: Martin ynolds Hall 212 5-9540 of Science in Education Jee 0833 tics Major 12 Certification Single Teaching Form (ear r Calc w/Anal Geo I [Eng 101 Comp I (WI)] General Psychology [HPER 103 Lifetm Wellness Orientation to Educ I	3 3 3 15 15 9e 64. Vviser.
Gophomore St Semeste Course Math 150 Chem 101 CORE CORE CORE CORE CORE CORE CORE CORE	de 1701 tics /ear cr Calc w/Anal Geo I General Chemistry I [Eng 101 Comp I (WI)] [Area 2 Elective] College Orientation er Calc w/Anal Geo II [Eng 102 Comp II (WI)] General Physics I Programming I [Comm 100 Oral Comm] Year r Calc w/Anal Geo III [Econ 180 Amer Econ Sys [Hist 110 U.S. History] [HPER 103 Lifetm Wellness or Chemistry Electives* er Fund of Math Thought Elective [322]	5 5 3 3 1 17 5 3 4 3 3 18 5 3 3 2 5 3-1 6-1 8	Phone: 62 Bachelor Major Coo Computa Freshman 1st Semeste Course Comp 110 Math 150 CORE Chem 101 Psy 120 2nd Semest Comp 210 Math 250 CORE Phys 250 CORE Sophomore 1st Semeste Comp 234 CIS 335 Math 260 CORE	eynolds Hall 212 25-9540 For Science de 1702 Ational Mathematics (Control of the programming of the program	Hours 3 5 3 5 1 17 3 5 5 ity] 1 17	*See require *See require *See require *Electives *See require *Electives n [Department For addition Dr. J. Larry Office: Rey Phone: 628 Bachelor Major Cod Mathemat Grades 7- (Plan B) Freshman Y 1st Semeste Course Math 150 CORE Psy 100 CORE	Computer Graphics Elective Elective** [Area 2 Elective] ments and exclusions on pagnust be approved by math ad Recommendations] mal information contact: Martin ynolds Hall 212 5-9540 of Science in Education le 0833 tics Major -12 Certification Single Teaching F fear r Calc w/Anal Geo I [Eng 101 Comp I (WI)] General Psychology [HPER 103 Lifetm Wellness	3 3 3 15 15 ge 64 Vviser.
Bachelor Major Coo Mathema Freshman Ist Semeste Course Math 150 Chem 101 CORE CORE Psy 120 Pind Semest Math 250 CORE Phys 250 CORE St Semeste Math 260 CORE CORE CORE CORE CORE CORE CORE CORE	de 1701 tics /ear Calc w/Anal Geo I General Chemistry I [Eng 101 Comp I (WI)] [Area 2 Elective] College Orientation er Calc w/Anal Geo II [Eng 102 Comp II (WI)] General Physics I Programming I [Comm 100 Oral Comm] Year Calc w/Anal Geo III [Econ 180 Amer Econ Sys [Hist 110 U.S. History] [HPER 103 Lifetm Wellness or Chemistry Electives* 10 er Fund of Math Thought Elective [322] [Psy 100 or Soc 110]	5 5 3 1 17 5 3 4 3 3 18 5 3 3 2 5 6-18 3 3	Phone: 62 Bachelor Major Coo Computa Freshman 1st Semeste Course Comp 110 Math 150 CORE Chem 101 Psy 120 2nd Semest Comp 210 Math 250 CORE Phys 250 CORE Sophomore 1st Semeste Comp 234 CIS 335 Math 260 CORE	eynolds Hall 212 25-9540 For Science de 1702 Ational Mathematics (Control of the programming of the program	Hours 3 5 3 5 1 17 3 5 5 ity] 1 17	*See require *See require *See require *Elective *See require *Electives n [Department For addition Dr. J. Larry Office: Rey Phone: 628 Bachelor Major Cod Mathemat Grades 7- (Plan B) Freshman Y 1st Semeste Course Math 150 CORE Psy 100 CORE Educ 100	Computer Graphics Elective Elective** [Area 2 Elective] ments and exclusions on pagnust be approved by math ad Recommendations] mal information contact: Martin ynolds Hall 212 5-9540 of Science in Education Jee 0833 tics Major 12 Certification Single Teaching Form (ear r Calc w/Anal Geo I [Eng 101 Comp I (WI)] General Psychology [HPER 103 Lifetm Wellness Orientation to Educ I	3 3 3 15 15 9e 64. Vviser.
Bachelor Major Coo Mathema Freshman 1st Semeste Course Math 150 Chem 101 CORE CORE Psy 120 2nd Semest Math 250 CORE Phys 250 Comp 110 CORE Ist Semeste Math 260 CORE CORE CORE CORE CORE	de 1701 tics /ear cr Calc w/Anal Geo I General Chemistry I [Eng 101 Comp I (WI)] [Area 2 Elective] College Orientation er Calc w/Anal Geo II [Eng 102 Comp II (WI)] General Physics I Programming I [Comm 100 Oral Comm] Year r Calc w/Anal Geo III [Econ 180 Amer Econ Sys [Hist 110 U.S. History] [HPER 103 Lifetm Wellness or Chemistry Electives* er Fund of Math Thought Elective [322]	5 5 3 3 1 17 5 3 4 3 3 18 5 3 3 2 5 3-1 6-1 8	Phone: 62 Bachelor Major Coo Computa Freshman 1st Semeste Course Comp 110 Math 150 CORE Chem 101 Psy 120 2nd Semest Comp 210 Math 250 CORE Phys 250 CORE Sophomore 1st Semeste Comp 234 CIS 335 Math 260 CORE	eynolds Hall 212 25-9540 For Science de 1702 Ational Mathematics (Control of the programming of the program	Hours 3 5 3 5 1 17 3 5 5 ity] 1 17	*See require *See require *See require *Elective *See require *Electives n [Department For addition Dr. J. Larry Office: Rey Phone: 628 Bachelor Major Cod Mathemat Grades 7- (Plan B) Freshman Y 1st Semeste Course Math 150 CORE Psy 100 CORE Educ 100	Computer Graphics Elective Elective** [Area 2 Elective] ments and exclusions on pagnust be approved by math ad Recommendations] mal information contact: Martin ynolds Hall 212 5-9540 of Science in Education Jee 0833 tics Major 12 Certification Single Teaching Form (ear r Calc w/Anal Geo I [Eng 101 Comp I (WI)] General Psychology [HPER 103 Lifetm Wellness Orientation to Educ I	3 3 3 15 15 ge 64 Vviser.

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2nd Semeste	r	
Math 250	Calc w/Anal Geo II	5
Chem 101	General Chemistry I*	5
CORE	[Eng 102 Comp II (WI)]	3
Comp 110	Programming I	3
CORE	[HPER 101 Physical Activity]	
		7
Sophomore	Year	
1st Semester		
Take C-Base	Test.	
Math 260	Calc w/Anal Geo III	5
Phys 250	General Physics I*	5
CORE	[Comm 100 Oral Comm]	3
CORE	[Area 2 Elective]	3
Educ 200	Orientation to Educ II	1
Educ 200		7
		1
2nd Semeste	r	
Apply for adn	nission to Teacher Education.	
Math 300	Fund of Math Thought	3
CORE	[Bio 101 General Biology]	4
CORE	[Area 2 Elective]	3
Psv 301	Adolescent Psychology	3
CORE	[Hist 110 U.S. History]	3
CORE		
		16
Junior Year		
1st Semester		
	competencies.	
Math 332	competences.	
OR		
		3
Math 361	□ Ai **	
Math	Elective**	3
Educ 329	Ped Theo, Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
CORE	[Hist 120 or 320 U.S. Hist]	3
		17
Ond Compate	Land Steel To	
2nd Semeste		
Math	Electives**	6
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
Psy 310	Educational Psychology	2
Psy 302	Exceptional Child	2
CORE	[Area 2 Elective]	3
	Pand recovery and automate	16
Senior Year		
1st Semeste		- 41
	dmission to student teachin	
	must be completed except P	rotes
	ster courses.	
Math 332		
OR		
Math 361		3
Math	Elective**	3
CORE	[Area 5 Elective]	3
CORE	[Econ 180 Amer Econ Sys]	3
Educ 422	Rdng in the Sec School	2
Elective		3
		17
2nd Semeste		
Educ 339	Tchng Math in Sec Schools	3
Educ 402	Foundations of Education	2
Educ 432	Critical Issues	2
Educ 412	Individual Curriculum Dev (2	
OR		THE
Educ 420	Intro to Counseling*** (3)	
OR		
Psy 412		-3
Educ 462	Student Teaching	8
	17-	18

*See requirements and exclusions on page 64.
**Electives must be approved by math adviser.
***Offered at night only. Must be taken the
semester prior to student teaching.

[Department Recommendations]

For additional information contact: Dr. J. Larry Martin

Office: Reynolds Hall 212

Phone: 625-9540

Private study in one area	
(8 semesters)	16
Applied piano elective (Except	
keyboard majors)	8
(Keyboard majors must take 8	
semester hours of music electives	
in lieu of the applied piano elective.)	
137-	138*

*See Prerequisites

**Must include at least 40 upper division (300 - 400 level) hours.

***Must be taken the last eight semesters of residency.

Music

Music Building 214, 625-9318

Faculty Havely - Head, Carnine, Clark, Clinton, Elliott, Harrell, Harris, Meeks, Thelen

The department of music offers a bachelor of arts degree and a bachelor of science in education degree with a major in music. Each degree prepares graduates for performance, studio teaching, and/or continued study toward an advanced degree. In addition, the bachelor of science in education degree prepares graduates for teaching in public education.

Core Curriculum requirements for one course in Area 2, Humanities and Fine Arts, are fulfilled by Mus 110 Music Appreciation.

Bachelor of Arts with a Major in Music

Semester Hour Core Requirements (p. 35) 5 Computer Literacy Requirement -				
determined	by music department	2-3		
Foreign La	nguage (four courses in	To the		
one langua		12		
Music Requ	uirements	72		
Mus 109	Sight Singing &			
	Ear Training*	2		
Mus 210	Sight Singing &			
	Ear Training*	2		
Mus 111	Music Theory	2		
Mus 112	Music Theory*	3		
Mus 182	Conducting Techniques*	2		
Mus 211	Music Theory*	3		
Mus 212	Music Theory*	3		
Mus 240	Recital Attendance			
	(8 semesters)	0		
Mus 311	History of Music*	3		
Mus 312	History of Music*	3		
Mus 420	Form and Analysis*	3		
Mus 431	Orchestration*	3		
Mus 444	Advanced Conducting			
	Techniques*	2		
Mus 450	Senior Recital*	0		
Large Music Ensemble				
	(8 semesters)***	16		

Bachelor of Science in Education with a Major in Music

Grades K-12 Certification

Mus 210

Plan B Single Teaching Field Option 1 Instrumental Emphasis

Ear Training*

Sight Singing &

Semester Hours
Core Requirements (p. 35) 51*

Music Requirements

Mus 109 Sight Singing &

74

2

	Г Т	0
A PERMIT	Ear Training**	2
Mus 111	Music Theory	3
Mus 112	Music Theory**	3
Mus 182	Conducting Techniques**	2
Mus 211	Music Theory**	3
Mus 212	Music Theory**	3
Mus 231	String Techniques	1
Mus 232	Brass Techniques	1
Mus 233	Percussion Techniques	
	(Not open to percussion	
	majors. Percussion majors	S
	must substitute a 2nd se-	
	mester of Mus 232 or 234.)	1
Mus 234	Woodwind Techniques	1
Mus 240	Recital Attendance	
	(7 semesters)	0
Mus 311	History of Music**	3
Mus 312	History of Music**	3
Mus 333	Music for the	
	Elementary Grades***	2
Mus 411	Marching Band Methods**	2
Mus 420	Form and Analysis**	2 2 3
Mus 431	Orchestration**	3
Mus 432	Music in the Public	
	School***	2
Mus 444	Advanced Conducting	
	Techniques**	2
Mus 450	Senior Recital**	0
Mus	Vocal/Choral Elective	2
Mus	Piano/Wind Instrument	2

(a) Instrumental major, other than piano: two semester hours of piano study or the equivalent (Class piano may be included).

(b) Piano major: Two semester hours of

(b) Piano major: Two semester hours of private study on a wind instrument or the equivalent.

The requirement under (a) and (b) may be satisfied through private study and/or by a proficiency test.

Private study as a major in one area (7 semesters) 14
Large Ensemble (7 semesters)**** 14
Brass, woodwind or percussion major: the seven semesters of large ensemble must be inband.

String Major: the seven semesters of large ensemble must be in orchestra.

Education Certification Requirements (p. 115-127) 40-41 162-163

*The required course in psychology satisfies both certification requirements and 3 hours of Core Curriculum, Area 3C.

**See Prerequisites

***Must be completed prior to the Professional Semester of supervised teaching.

*****Must be taken the seven semesters immediately prior to the student teaching semester.

Bachelor of Science in Education with a Major in Music

Grades K-12 Certification

Plan B Single Teaching Field Option II Vocal Emphasis

	Semester H	Oure
Core Regu	irements (p. 35) 51*	48
Music Req		74
Mus 109	Sight Singing &	
11100 100	Ear Training**	2
Mus 210	Sight Singing &	
WIGO Z TO	Ear Training	2
Mus 111	Music Theory	2
Mus 112	Music Theory**	3
Mus 182	Conducting Techniques**	3 2 3 3
Mus 211	Music Theory**	3
Mus 212	Music Theory**	3
Mus 240	Recital Attendance	
Wido E io	(7 semesters)	0
Mus 309	Choral Techniques	
Mus 311	History of Music**	2
Mus 312	History of Music**	3
Mus 333	Music for the	
	Elementary Grades***	2
Mus 420	Form and Analysis**	2 3
Mus 431	Orchestration**	3
Mus 432	Music in the Public	
	School***	2
Mus 444	Advanced Conducting	
	Techniques**	2
Mus 450	Senior Recital**	2
Mus	Instrumental Elective	2
Mus	Piano/Voice	6

(a) Piano Major: Six semester hours of private voice study or the equivalent

(b) Voice Major: Six semester hours of piano study or the equivalent (two semesters of private study following the satisfactory completion of four semesters of Mus 113).

The requirement under (a) and (b) may be satisfied through private study and/or by a proficiency test. Satisfactory completion of four semesters of Mus 113 constitutes passing the Piano Proficiency Test.

Private study as a major in one area (7 semesters) 14
Concert Chorale (7 semesters)**** 14
Education Certification Requirements
(p. 115-127) 40-41
162-163

*The required course in psychology satisfies both certification requirements and 3 hours of Core Curriculum.

**See Prerequisites

***Must be completed prior to the Professional Semester of super-vised teaching.
****Must be taken the seven semesters immediately prior to the student teaching semester.

Bachelor of Science in Education with a Major in Music

Grades K-12 Certification
Plan B Single Teaching Field
Option III Double Certification

Semester Hours

Semeste	Hours
Core Requirements (p. 35) 51*	48
Music Requirements	108
All of the requirements listed for	
Option I and Option II, either (a) or	
(b), with the exception of the	
applied major requirement.	86
Private study as an applied major	
in one primary area (7 semesters.	14
Private study as an applied elective	9
in one secondary area (4 semester	s)
A proficiency test in the secondary	
major area must be passed before	
graduation.	8
A senior recital will be required only	y in
the primary applied area.	
Education Certification Requirer	nents
(p. 115-127)	40-41
	96-197

*The required course in psychology satisfies both certification requirements and 3 hours of Core Curriculum.

Minor in Music

	Semester F	lours
Mus 111	Music Theory	3
Mus 112	Music Theory	3
Large Ense	mble	4
Applied Mus	sic Elective (2 Semesters)	2
Music Elect	ives*	9
		21

*Must be made with prior approval of music adviser, 6 must be upper division.

Suggested Order of Study

Bachelor of Arts Major Code 1005

Music Major Freshman Year

1st Semester

Course		Hours
Mus 111	Music Theory	3
Mus 207	Applied Music Major	2
Mus 240	Recital Attendance	Cr
Mus	App Piano or Mus Elective	1-2
Mus	Large Ensemble	2
CORE	[Eng 101 Comp I]	3
CORE	[Mus 110 Music Apprec]	3
Psy 120	College Orientation	1
	1!	5-16

2nd Semeste	er
Mus 112	Music Theory 3
Mus 109	Sight Singing & Ear Training 2
Mus 208	Applied Music Major 2
Mus 240	Recital Attendance Cr
Mus	App Piano or Mus Elective 1-2
Mus	Large Ensemble 2
CORE	[Eng 102 Comp II] 3
CORE	[Math 110 Intro to Col Math] 3
	10 17

Sophomore Year

Copiloliloid	· oui
1st Semester	
Mus 211	Music Theory 3
Mus 210	Sight Singing & Ear Training 2
Mus 207	Applied Music Major 2
Mus 240	Recital Attendance Cr
Mus	App Piano or Mus Elective 1-2
Mus	Large Ensemble 2
CORE	[HPER 103 Lifetm Wellness] 2
CORE	[HPER 101 Physical Activity] 1
CORE	[Hist 110 U.S. History] 3
CORE	[Econ 180 Amer Econ Sys] 3
	10-20

2nd Semeste	r	
Mus 212	Music Theory	3
Mus 208	Applied Music Major	2
Mus 240	Recital Attendance	Cr
Mus	App Piano or Mus Elective	1-2
Mus	Large Ensemble	2
CORE	[Hist 120 U.S. History]	3
CORE	[Bio 101 General Biology]	4
CORE	[Psy 100 Gen Psychology]	3
	18	-19

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Junior Year	Bachelor of Science in Education	Junior Year
1st Semester	Major Code 0832	1st Semester
Mus 182 Conducting Techniques 2	Music Major	Pass media competencies.
Mus 420 Form, Analysis 3		Mus 182 Conducting 2
Mus 407 Applied Music Major 2	(Plan B) Single Teaching Field	Mus 311 History of Music 3
Mus 240 Recital Attendance Cr	Grades K-12 Certification	Mus 420 Form & Analysis 3
Mus App Piano or Mus Elective 1-2	Piano Major with Vocal Emphasis	Mus 407 Applied Music Major Piano 2
Mus Large Ensemble 2	Trans major with vood Emphasis	Mus 305 Applied Music Voice 1
CORE [Comm 100 Oral Comm] 3	Freshman Year	Mus 321 Choir 2
Foreign Language 3	1st Semester	Mus 240 Recital Attendance Cr
16-17	Course Hours	Educ 329 Ped Theo Meth & Prac 4
	Mus 111 Music Theory 3	Educ 321 Microteaching 2
2nd Semester	Mus 207 Applied Music-Major Piano 2	Educ 423 Classroom Management 2
Mus 444 Advanced Conducting 2	Mus 105 Applied Music-Voice 1	21
Mus 408 Applied Music Major 2	Mus 121 Choir 2	
	Mus 240 Recital Attendance Cr	2nd Semester
	CORE [Eng 101 Comp I] 3	
	Psy 120 College Orientation 1	Mus 444 Advanced Conducting 2 Mus 312 History of Music 3
Mus App Piano or Mus Elective 1-2	CORE [Mus 110 Music Apprec] 3	
Mus Large Ensemble 2		
CORE [Art 110 or Th 110] 3	, , , , , , , , , , , , , , , , , , , ,	Mus 306 Applied Music Voice 1
Foreign Language 3	Educ 100 Orientation to Educ I 1	Mus 321 Choir 2
16-17	19	Mus 240 Recital Attendance Cr
		Mus 333 Music in Elem Grades 2
Senior Year	2nd Semester	Mus 431 Orchestration 3
1st Semester	Mus 112 Music Theory 3	CORE [Hist 320 U.S. History] 3
Mus 311 History of Music 3	Mus 109 Sight Singing & Ear Training 2	Psy 305 Developmental Psychology 4
Mus 407 Applied Music Major 2	Mus 208 Applied Music Major Piano 2	22
Mus 240 Recital Attendance Cr	Mus 106 Applied Music Voice 1	
Mus App Piano or Mus Elective 1-2	Mus 121 Choir 2	Senior Year
	Mus 240 Recital Attendance Cr	1st Semester
		Apply for admission to Student Teaching. All
CORE [Phys 100 Fund of Phys Sci] 5	CORE [Eng 102 Comp II] 3	course work must be completed except Profes-
CORE [Eng 281 or 282 Lit] 3	CORE [Math 110 Intro to Col Math] 3	
Foreign Language 3	Mus Instrumental Elective 2	sional Semester courses.
19-20	CORE [Econ 180 Amer Econ Sys] 3	Mus 421 Choir 2
	21	Mus 432 Music in Public Schools 2
2nd Semester		Mus 408 Applied Music Major 2
Mus 312 History of Music 3	Sophomore Year	Mus 450 Senior Recital Cr
Mus 408 Applied Music Major 2	1st Semester	Mus 240 Recital Attendance Cr
Mus 240 Recital Attendance Cr	Take C-Base test.	Psy 310 Educational Psychology 2
Mus 450 Senior Recital 1-2	Mus 310 Vocal Techniques 2	CORE [Phys 100 Fund of Phys Sci] 5
Mus Large Ensemble 2	Mus 211 Music Theory 3	Educ 401 Use of Comp Software in
CORE [PSc 120 Gov't: U.S./Sta/Loc] 3	Mus 210 Sight Singing & Ear Training 2	Class (or computer course
Educ 401 Use of Comp Software in	Mus 207 Applied Music Major Piano 2	approved by music dept.) 2
Class (or computer course	Mus 105 Applied Music Voice 1	Educ 422 Tching Rding in Sec Sch 2
		CORE [Soc 342 Compar Cultures] 3
		CORE [Art 110 or Th 110] 3
CORE [Soc 342 Compar Cultures] 3	Mus 240 Recital Attendance Cr	23
Foreign Language 3	CORE [HPER 103 Lifetm Wellness] 2	23
19-20	CORE [HPER 101 Physical Activity] 1	0.10
	CORE [Eng 281 or 282 Lit] 3	2nd Semester
[Department Recommendations]	Educ 200 Orientation to Educ II 1	Mus 335 Tching Music in Sec School 2
	Educ 302 Exceptional Child 2	Educ 402 Foundations of Educ 2
For additional information contact:	21	Educ 432 Critical Issues in Educ 2
Mr. Pete Havely		Educ 412 Individual Curriculum Dev (2)
Office: Music Building 216	2nd Semester	OR
	Apply for admission to teacher education.	Educ 420 Intro to Counseling* (3)
Phone: 625-9318	Mus 212 Music Theory 3	OR
	Mus 208 Applied Music Major Piano 2	Psy 412 Meas & Eval (2) 2-3
	Mus 106 Applied Music Voice 1	Educ 464 Student Teaching 8
	Mus 121 Choir 2	16-17
		10-17
		[Department Recommendations]
		*Must be taken at night, semester prior to student
	CORE [Comm 100 Oral Comm] 3	
	CORE [Bio 101 General Biology] 4	teaching.
	CORE [PSc 120 Gov't: U.S./Sta/Loc] 3	Fau additional information and the
	21	For additional information contact:

Bachelor of Science in Education

Junior Year

Mr. Pete Havely

Office: Music Building 216 Phone: 625-9318

Bachelor of Science in Education

Major Code 0832 Music Major			1st Semeste		Major Code 0832 Music Major				
				competencies.					
		-12 Certification		Mus 182	Conducting Techniques	2	(Plan B)	Single Teachir	na Field
				Mus 305	App Mus Woodwind/Brass	1			ing r leiu
	(Plan B)	Single Teaching	Field	Mus 311	History of Music	3		(-12 Certification	
	Piano Mai	jor with Instrumental		Mus 420	Form & Analysis	3	Vocal Ma	ijor	
	Emphasis			Mus 407	Applied Music Major Piano	2			
	Lilipilasis			Mus 391	Band	2	Freshman		
	Freshman Y	'ear		Mus 240	Recital Attendance	Cr	1st Semest	er	OF SUME
	1st Semeste	r		Educ 329	Ped Theo Meth & Prac	4	Course		Hours
	Course	F 1000 Drop Barrings	lours	Educ 321	Microteaching	2	Mus 111	Music Theory	3
	Mus 111	Music Theory	3	Educ 423	Classroom Management	2	Mus 207	Applied Music Voice	2
	Mus 231					21	Mus 113	Class Piano	1
	OR						Mus 121	Choir	2
	Mus 233	String/Percussion Technique	es1				Mus 240	Recital Attendance	Cr
	Mus 207	Applied Music Major Piano	2	2nd Semest	ter		CORE	[Eng 101 Comp I]	3
	Mus 191	Band	2	Mus 444	Advanced Conducting	2	Psy 120	College Orientation	1
	Mus 240	Recital Attendance	Cr	Mus 306	App Mus Woodwind/Brass	1	CORE	[Mus 110 Music Apprec]	
	CORE	[Eng 101 Comp I]	3	Mus 312	History of Music	3	Psy 100	General Psychology	3
	Psy 120	College Orientation	1	Mus 408	Applied Music Major	2	Educ 100	Orientation to Educ I	1
	CORE	[Mus 110 Music Apprec]	3	Mus 392	Band	2			19
	Psy 100	General Psychology	3	Mus 240	Recital Attendance	Cr			
	Educ 100	Orientation to Educ I	1	Mus 333	Music in Elem Grades	2	2nd Semes		
			19	Mus 431	Orchestration	3	Mus 112	Music Theory	2
	2nd Semeste	er		CORE	[Psc 120 Gov't: U.S./Sta/Loc]	3	Mus	Instrumental Elective	2
	Mus 112	Music Theory	3	CORE	[Art 110 or Th 110]	3	Mus 109	Sight Singing & Ear Train	
	Mus 232	made modify				21	Mus 208	Applied Music Voice	2
	OR						Mus 113	Class Piano	1
	Mus 234	Brass/Woodwind Tech	1	Senior Yea	•		Mus 121	Choir	2
	Mus 109	Sight Singing & Ear Training	12	1st Semeste			Mus 240	Recital Attendance	Cr
	Mus 208	Applied Music Major Piano	2		admission to student teach	ing. All	CORE	[Eng 102 Comp II]	3
	Mus 192	Band	2	course work	k must be completed except	Profes-	CORE	[HPER 103 Lifetm Wellr	4
	Mus 240	Recital Attendance	Cr		ester courses.		CORE	[HPER 101 Physical Ac	tivity] 1
	CORE	[Eng 102 Comp II]	3	Mus 411	Marching Band Methods	1	CORE	[Math 110 Intro to Col N	
	CORE	[HPER 103 Lifetm Wellness		Mus 491	Band	2			20
	CORE	[HPER 101 Physical Activity		Mus 432	Music in Public School	2	Sophomor	e Year	
	CORE	[Math 110 Intro to Col Math]		Mus 408	Applied Music Major Piano		1st Semest	er	
-	CORE	[Econ 180 Amer Econ Sys]	3	Mus 450	Senior Recital	Cr	Take C-Bas		The second
ш	OOTIL	[Econ 100 Amer Econ Cyc]	22	Mus 240	Recital Attendance	Cr	Mus 310	Vocal Techniques	2
				Psy 310	Educational Psychology	2	Mus 113	Class Piano	1
	Sophomore	Vear		CORE	[Phys 100 Fund of Phys Sc	cil 5	Mus 211	Music Theory	3
	1st Semeste			Educ 401	Use of Comp Sftwr in Cls (Mus 210	Sight Singing & Ear Tra	
	Take C-Base				computer course approved		Mus 207	Applied Music Voice	2
н	Mus 231	e test.			by music dept.)	2	Mus 121	Choir	2
	OR			Educ 422	Techniques of Reading	2	Mus 240	Recital Attendance	Cr
	Mus 233	String/Perc Techniques	1	CORE	[Soc 342 Compar Cultures]		CORE	[Eng 281 or 282 Lit]	3
	Mus 121	String/r ere recrimques		00		21	Educ 200	Orientation to Educ II	1
	OR						Educ 302	Exceptional Child	2
	Mus 310	Choir or Vocal Techniques	2				CORE	[Econ 180 Amer Econ S	
	Mus 211	Music Theory	3	2nd Semes	ter				21
	Mus 210	Sight Singing & Ear Training	12	Mus 335	Tchng Mus in Sec School	2			
	Mus 207	Applied Music Major Piano	2	Educ 402	Foundations of Educ	2	2nd Semes		
	Mus 240	Recital Attendance	Cr	Educ 432	Critical Issues in Educ	2		dmission to Teacher Educa	ation.
	CORE	[Hist 110 U.S. History]	3	Educ 412	Individual Curriculum Dev	(2)	Mus 113	Class Piano	1
	Educ 200	Orientation to Educ II	1	OR			Mus 212	Music Theory	3
	Educ 302	Exceptional Child	2	Educ 420	Intro to Counseling (3)*		Mus 208	Applied Music Voice	2
	Mus 191	Band	2	OR			Mus 121	Choir	2
	Psy 305	Developmental Psychology		Psy 412	Meas & Eval (2)	2-3	Mus 240	Recital Attendance	Cr
	. 0, 000		22	Educ 464	Student Teaching	8	CORE	[Hist 110 U.S. History]	3
			3 1 13		16	6-17	CORE	[Bio 101 General Biolog	
	2nd Semest	er	34 3				CORE	[Comm 100 Oral Comm	
	Apply for ad	mission to teacher education	8 20	*Offered at	night only, must be taken ser	mester	CORE	[Art 110 or Th 110]	3
	Mus 232				dent teaching.				21
	OR		3 10 8		nt Recommendations]				
	Mus 234	Brass/Wdwind Techniques	1		The term of success to the second				
	Mus 212	Music Theory	3	For addition	onal information contact:				
	Mus 208	Applied Music Major Piano	2	Mr. Pete F					
	Mus 292	Band	2		usic Building 216				
	Mus 240	Recital Attendance	Cr	Phone: 62					

Junior Year

Bachelor of Science in Education

CORE CORE CORE CORE [Hist 120 U.S. History] [Bio 101 General Biology] [Comm 100 Oral Comm] [Eng 281 or 282 Lit]

Phone: 625-9318

70 / Music

Junior Year 1st Semester			Bachelor of Science in Education			2nd Semester			
	a competencies.		Major Code 0832			Apply for admission to Teacher Education.			
			Music Ma	aior		Mus 113	Class Piano	1	
Mus 182	Conducting Techniques	2				Mus 212	Music Theory	3	
Mus 311	History of Music	3		(-12 Certification		Mus 208	Applied Music Major	2	
Mus 420	Form & Analysis	3	(Plan B)	Single Teaching	Field	Mus 232	dates Tolker (2001)		
Mus 407	Applied Music Voice	2	, ,	ntal Major		OR			
Mus 305	Piano	1	mount	illai iviajoi		Mus 234	Brass/Wdwind Techniques	1	
Mus 321	Choir	2	Freshman	Year			biass/wawina reciniques		
			1st Semest			Mus192			
Mus 240	Recital Attendance	Cr				OR			
Educ 329	Ped Theo Meth & Prac	4	Course		Hours	Mus 152	Band or Orchestra	2	
Educ 321	Microteaching	2	Mus 111	Music Theory	3	Mus 240	Recital Attendance	Cr	
Educ 423	Classroom Management	2	Mus 207	Applied Music Major	2	CORE	[Hist 110 U.S. History]	3	
Ludo 120	Classicom Management	21	Mus 113	Class Piano	1	CORE	[Bio 101 General Biology]	4	
		21	Mus 191						
			OR			CORE	[Comm 100 Oral Comm]	3	
2nd Semes				D	0	Psy 305	Developmental Psychology	4	
Mus 444	Advanced Conducting	2	Mus 151	Band/Orchestra	2			23	
Mus 312	History of Music	3	Mus 231						
Mus 408	Applied Music Voice	2	OR			Junior Yea			
			Mus 233	String/Percus Techniques	1	1st Semest			
Mus 306	Piano	1	Mus 240	Recital Attendance	Cr				
Mus 321	Choir	2					Competencies.		
Mus 240	Recital Attendance	Cr	CORE	[Eng 101 Comp I]	3	Mus 182	Conducting Techniques	2	
Mus 333	Music in Elem Grades	2	Psy 120	College Orientation	1	Mus 311	History of Music	3	
Mus 431	Orchestration		CORE	[Mus 110 Music Apprec]	3	Mus 420	Form & Analysis	3	
		3	Psy 100	General Psychology	3				
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3	Educ 100			Mus 407	Applied Music Major	2	
Psy 305	Developmental Psychology	4	Educ 100	Orientation to Educ I	1	Mus 391			
		22			20	OR			
						Mus 351	Band or Orchestra	2	
Senior Yea			2nd Semes	ter		Mus 240	Recital Attendance	Cr	
			Mus 112	Music Theory	3				
1st Semest						Educ 329	Ped Theo Meth & Prac	4	
Apply for st	udent teaching. All courses m	nust be	Mus 109	Sight Singing & Ear Trainin		Educ 321	Microteaching	2	
completed i	except for Professional Semes	ster.	Mus 208	Applied Music Major	2	CORE	[Art 110 or Th 110]	3	
Mus 421	Choir	2	Mus 113	Class Piano	1	Educ 423	Classroom Management	2	
Mus 432	Music in Public School	2	Mus 192				olacoroom management	23	
	Music III Fublic Scriool		OR					23	
Mus 408	Applied Music Voice	2			The state of				
Mus 450	Senior Recital	Cr	Mus 152	Band or Orchestra	2	2nd Semes	ter		
Mus 240	Recital Attendance	Cr	Mus 232			Mus 444	Advanced Conducting	2	
CORE	[Phys 100 Fund of Phys Sci		OR			Mus 312	History of Music	3	
			Mus 234	Brass/Wdwind Techniques	1	Mus 408			
Educ 401	Use of Comp Sftwr in Clsrm						Applied Music Major	2	
	(or computer course approv	ed	Mus 240	Recital Attendance	Cr	Mus 392			
	by music dept.)	2	CORE	[Eng 102 Comp II]	3	OR			
Educ 422	Tchng Rdng in Sec Sch	2	CORE	[HPER 103 Lifetm Wellness	sl 2	Mus 352	Band or Orchestra	2	
CORE	[Soc 342 Compar Cultures]	3	CORE	[HPER 101 Physical Activity	vl 1	Mus 240	Recital Attendance	Cr	
CORE			CORE	[Math 110 Intro to Col Math		Mus 333			
	[Hist 320 U.S. History]	3	OOIIL	[Math 110 mile to Con Math	-		Music in Elem Grades	2	
Psy 310	Education Psychology	2			20	Mus 431	Orchestration	3	
		23				CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3	
			Sophomore	Year		Educ 422	Tchng Rdng in Sec Sch	2	
							roming maning in occording	_	
2nd Semes	ter		1st Semeste	er				10	
2nd Semes		0	1st Semeste					19	
Mus 335	Tchng Music in Sec School		Take C-Bas			O-ml - V		19	
Mus 335 Educ 402	Tchng Music in Sec School Foundations of Educ	2	Take C-Bas Mus 121			Senior Yea		19	
	Tchng Music in Sec School		Take C-Bas Mus 121 OR			1st Semeste	er vesselves M		
Mus 335 Educ 402	Tchng Music in Sec School Foundations of Educ Critical Issues in Educ	2 2	Take C-Bas Mus 121		2	1st Semeste	er vessels salkt		
Mus 335 Educ 402 Educ 432 Educ 412	Tchng Music in Sec School Foundations of Educ	2 2	Take C-Bas Mus 121 OR Mus 310	e test. Choir or Vocal Techniques		1st Semeste Apply for add	er mission to student teaching. All	cours	
Mus 335 Educ 402 Educ 432 Educ 412 OR	Tchng Music in Sec School Foundations of Educ Critical Issues in Educ Individual Curriculum Dev (2	2 2	Take C-Bas Mus 121 OR Mus 310 Mus 113	ce test. Choir or Vocal Techniques Class Piano	1	1st Semeste Apply for add work must	er mission to student teaching. All be completed except Profe	cours	
Mus 335 Educ 402 Educ 432 Educ 412 OR Educ 420	Tchng Music in Sec School Foundations of Educ Critical Issues in Educ	2 2	Take C-Bas Mus 121 OR Mus 310 Mus 113 Mus 211	ce test. Choir or Vocal Techniques Class Piano Music Theory	1 3	1st Semeste Apply for add work must Semester c	er mission to student teaching. All be completed except Profe	cours	
Mus 335 Educ 402 Educ 432 Educ 412 OR Educ 420 OR	Tchng Music in Sec School Foundations of Educ Critical Issues in Educ Individual Curriculum Dev (2	2 2	Take C-Bas Mus 121 OR Mus 310 Mus 113 Mus 211 Mus 210	ce test. Choir or Vocal Techniques Class Piano Music Theory Sight Singing & Ear Training	1 3	1st Semeste Apply for ad- work must Semester of Mus 391	er mission to student teaching. All be completed except Profe	cours	
Mus 335 Educ 402 Educ 432 Educ 412 OR Educ 420	Tchng Music in Sec School Foundations of Educ Critical Issues in Educ Individual Curriculum Dev (2 Intro to Counseling (3)*	2 2	Take C-Bas Mus 121 OR Mus 310 Mus 113 Mus 211 Mus 210 Mus 207	ce test. Choir or Vocal Techniques Class Piano Music Theory	1 3	1st Semeste Apply for add work must Semester c	er mission to student teaching. All be completed except Profe	cours	
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Mus 335 Educ 402 Educ 432 Educ 412 OR Educ 420 OR Psy 412	Tchng Music in Sec School Foundations of Educ Critical Issues in Educ Individual Curriculum Dev (2 Intro to Counseling (3)* Meas & Eval (2) Student Teaching	2 2 2) 2-3 8	Take C-Bas Mus 121 OR Mus 310 Mus 113 Mus 211 Mus 210 Mus 207 Mus 231	ce test. Choir or Vocal Techniques Class Piano Music Theory Sight Singing & Ear Training	1 3 g 2	1st Semeste Apply for add work must Semester of Mus 391 OR Mus 351	er mission to student teaching. All be completed except Profes ourses. Band or Orchestra	cours ssiona 2	
Mus 335 Educ 402 Educ 432 Educ 412 OR Educ 420 OR Psy 412	Tchng Music in Sec School Foundations of Educ Critical Issues in Educ Individual Curriculum Dev (2 Intro to Counseling (3)*	2 2 2) 2-3 8	Take C-Bas Mus 121 OR Mus 310 Mus 113 Mus 211 Mus 210 Mus 207 Mus 231 OR	che test. Choir or Vocal Techniques Class Piano Music Theory Sight Singing & Ear Training Applied Music Major	1 3 g 2 2	1st Semeste Apply for add work must Semester of Mus 391 OR Mus 351 Mus 411	er mission to student teaching. All be completed except Profes ourses. Band or Orchestra Marching Band Methods	cours ssiona 2 2	
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Mus 335 Educ 402 Educ 432 Educ 412 OR Educ 420 OR Psy 412 Educ 464	Tchng Music in Sec School Foundations of Educ Critical Issues in Educ Individual Curriculum Dev (2 Intro to Counseling (3)* Meas & Eval (2) Student Teaching	2 2 2) 2-3 8	Take C-Bas Mus 121 OR Mus 310 Mus 113 Mus 211 Mus 210 Mus 207 Mus 231 OR Mus 233 Mus 191 OR	che test. Choir or Vocal Techniques Class Piano Music Theory Sight Singing & Ear Training Applied Music Major	1 3 g 2 2	1st Semeste Apply for add work must Semester of Mus 391 OR Mus 351 Mus 411 Mus 432	er mission to student teaching. All be completed except Profes ourses. Band or Orchestra Marching Band Methods Music in Public School	cours ssiona 2 2 2	
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Mus 335 Educ 402 Educ 432 Educ 412 OR Educ 420 OR Psy 412 Educ 464 *Offered at prior to stud	Tchng Music in Sec School Foundations of Educ Critical Issues in Educ Individual Curriculum Dev (2 Intro to Counseling (3)* Meas & Eval (2) Student Teaching 16- night only, must be taken ser lent teaching. t Recommendations]	2 2 2) 2-3 8	Take C-Bas Mus 121 OR Mus 310 Mus 113 Mus 211 Mus 210 Mus 207 Mus 231 OR Mus 233 Mus 191 OR Mus 151 Mus 240 CORE	Choir or Vocal Techniques Class Piano Music Theory Sight Singing & Ear Training Applied Music Major String/Percussion Technique Band or Orchestra Recital Attendance [Eng 281 or 282 Lit]	1 3 g 2 2 nes1	1st Semeste Applyfor add work must Semester of Mus 391 OR Mus 351 Mus 411 Mus 432 Mus 408 Mus 450 Mus 240 Psy 310 CORE	er mission to student teaching. All be completed except Profesourses. Band or Orchestra Marching Band Methods Music in Public School Applied Music Major Senior Recital Recital Attendance Educational Psychology [Phys 100 Fund Phys Sci]	cours ssiona 2 2 2 2 Cr Cr Cr 2 5	
Mus 335 Educ 402 Educ 432 Educ 412 OR Educ 420 OR Psy 412 Educ 464 *Offered at prior to stud	Tchng Music in Sec School Foundations of Educ Critical Issues in Educ Individual Curriculum Dev (2 Intro to Counseling (3)* Meas & Eval (2) Student Teaching 16- night only, must be taken serlent teaching.	2 2 2) 2-3 8	Take C-Bas Mus 121 OR Mus 310 Mus 113 Mus 211 Mus 207 Mus 231 OR Mus 233 Mus 191 OR Mus 151 Mus 240 CORE Educ 200	Choir or Vocal Techniques Class Piano Music Theory Sight Singing & Ear Training Applied Music Major String/Percussion Technique Band or Orchestra Recital Attendance [Eng 281 or 282 Lit] Orientation to Educ II	1 3 g 2 2 nes1	1st Semeste Applyfor add work must Semester of Mus 391 OR Mus 351 Mus 411 Mus 432 Mus 408 Mus 450 Mus 240 Psy 310	er mission to student teaching. All be completed except Profesourses. Band or Orchestra Marching Band Methods Music in Public School Applied Music Major Senior Recital Recital Attendance Educational Psychology	cours ssiona 2 2 2 2 Cr Cr Cr 2 5	
Mus 335 Educ 402 Educ 432 Educ 412 OR Educ 420 OR Psy 412 Educ 464 *Offered at prior to stud	Tchng Music in Sec School Foundations of Educ Critical Issues in Educ Individual Curriculum Dev (2 Intro to Counseling (3)* Meas & Eval (2) Student Teaching 16- night only, must be taken ser lent teaching. t Recommendations] anal information contact:	2 2 2) 2-3 8	Take C-Bas Mus 121 OR Mus 310 Mus 113 Mus 211 Mus 210 Mus 207 Mus 231 OR Mus 233 Mus 191 OR Mus 151 Mus 240 CORE Educ 200 Educ 302	Choir or Vocal Techniques Class Piano Music Theory Sight Singing & Ear Training Applied Music Major String/Percussion Technique Band or Orchestra Recital Attendance [Eng 281 or 282 Lit] Orientation to Educ II Exceptional Child	1 3 g 2 2 nes1	1st Semeste Applyfor add work must Semester of Mus 391 OR Mus 351 Mus 411 Mus 432 Mus 408 Mus 450 Mus 240 Psy 310 CORE	er mission to student teaching. All be completed except Profesourses. Band or Orchestra Marching Band Methods Music in Public School Applied Music Major Senior Recital Recital Attendance Educational Psychology [Phys 100 Fund Phys Sci] [Soc 342 Compar Cultures]	cours ssiona 2 2 2 2 Cr Cr Cr 2 5 3	
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Mus 335 Educ 402 Educ 432 Educ 412 OR Educ 420 OR Psy 412 Educ 464 *Offered at prior to stud [Departmen For additio Mr. Pete H Office: Mu	Tchng Music in Sec School Foundations of Educ Critical Issues in Educ Individual Curriculum Dev (2 Intro to Counseling (3)* Meas & Eval (2) Student Teaching 16- night only, must be taken ser lent teaching. It Recommendations] Inal information contact: lavely usic Building 216	2 2 2) 2-3 8	Take C-Bas Mus 121 OR Mus 310 Mus 113 Mus 211 Mus 210 Mus 207 Mus 231 OR Mus 233 Mus 191 OR Mus 151 Mus 240 CORE Educ 200 Educ 302	Choir or Vocal Techniques Class Piano Music Theory Sight Singing & Ear Training Applied Music Major String/Percussion Technique Band or Orchestra Recital Attendance [Eng 281 or 282 Lit] Orientation to Educ II	1 3 g 2 2 2 ees1	1st Semeste Applyfor add work must Semester of Mus 391 OR Mus 351 Mus 411 Mus 432 Mus 408 Mus 450 Mus 240 Psy 310 CORE CORE	er mission to student teaching. All be completed except Profesourses. Band or Orchestra Marching Band Methods Music in Public School Applied Music Major Senior Recital Recital Attendance Educational Psychology [Phys 100 Fund Phys Sci] [Soc 342 Compar Cultures] Use of Comp Sftwr in Clsrm (orcomputer course approve	cours 2 2 2 2 Cr Cr Cr 2 5 3	
Mus 335 Educ 402 Educ 432 Educ 412 OR Educ 420 OR Psy 412 Educ 464 *Offered at prior to stud [Departmen For additio Mr. Pete H	Tchng Music in Sec School Foundations of Educ Critical Issues in Educ Individual Curriculum Dev (2 Intro to Counseling (3)* Meas & Eval (2) Student Teaching 16- night only, must be taken ser lent teaching. It Recommendations] Inal information contact: lavely usic Building 216	2 2 2) 2-3 8	Take C-Bas Mus 121 OR Mus 310 Mus 113 Mus 211 Mus 210 Mus 207 Mus 231 OR Mus 233 Mus 191 OR Mus 151 Mus 240 CORE Educ 200 Educ 302	Choir or Vocal Techniques Class Piano Music Theory Sight Singing & Ear Training Applied Music Major String/Percussion Technique Band or Orchestra Recital Attendance [Eng 281 or 282 Lit] Orientation to Educ II Exceptional Child	1 3 g 2 2 2 ees1	1st Semeste Applyfor add work must Semester of Mus 391 OR Mus 351 Mus 411 Mus 432 Mus 408 Mus 450 Mus 240 Psy 310 CORE CORE Educ 401	Band or Orchestra Marching Band Methods Music in Public School Applied Music Major Senior Recital Recital Attendance Educational Psychology [Phys 100 Fund Phys Sci] [Soc 342 Compar Cultures] Use of Comp Sftwr in Clsrm (orcomputer course approve by music dept.)	cours 2 2 2 Cr Cr Cr 2 5 3	
Mus 335 Educ 402 Educ 432 Educ 412 OR Educ 420 OR Psy 412 Educ 464 Coffered at prior to stud Departmen For additio Mr. Pete H Office: Mu	Tchng Music in Sec School Foundations of Educ Critical Issues in Educ Individual Curriculum Dev (2 Intro to Counseling (3)* Meas & Eval (2) Student Teaching 16- night only, must be taken ser lent teaching. It Recommendations] Inal information contact: lavely usic Building 216	2 2 2) 2-3 8	Take C-Bas Mus 121 OR Mus 310 Mus 113 Mus 211 Mus 210 Mus 207 Mus 231 OR Mus 233 Mus 191 OR Mus 151 Mus 240 CORE Educ 200 Educ 302	Choir or Vocal Techniques Class Piano Music Theory Sight Singing & Ear Training Applied Music Major String/Percussion Technique Band or Orchestra Recital Attendance [Eng 281 or 282 Lit] Orientation to Educ II Exceptional Child	1 3 g 2 2 2 ees1	1st Semeste Applyfor add work must Semester of Mus 391 OR Mus 351 Mus 411 Mus 432 Mus 408 Mus 450 Mus 240 Psy 310 CORE CORE	er mission to student teaching. All be completed except Profesourses. Band or Orchestra Marching Band Methods Music in Public School Applied Music Major Senior Recital Recital Attendance Educational Psychology [Phys 100 Fund Phys Sci] [Soc 342 Compar Cultures] Use of Comp Sftwr in Clsrm (orcomputer course approve	courssions 2 2 2 Cr Cr Cr 3	

Paralegal, Philosophy / 71

2nd Semest	ter	
Mus 335	Tching Music in Sec S	Sch 2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues in Educ	
Educ 412 OR	Individual Curriculum	
Educ 420 OR	Intro to Counseling (3)*
Psy 412	Meas & Eval (2)	2-3
Educ 464	Student Teaching	8
		16-17

*Offered at night only, must be taken semester prior to student teaching.

[Department Recommendations]

For additional information contact:

Mr. Pete Havely

Office: Music Building 216

Phone: 625-9318

Paralegal Studies

Webster Hall 245, 625-9565

Faculty Tate - Head, Yates

The paralegal program is designed for the student seeking a career as a legal assistant working under the direction and supervision of an attorney in private practice, government service or legal aid. However, the knowledge and skills acquired in the paralegal program are beneficial to students in the areas of law enforcement, prelaw, business law and political science. Students who choose to learn more about the legal system and how to develop their own skills in legal research for personal enrichment are also encouraged to enroll.

No major or degree is now offered in paralegal studies, but a student enrolled in the paralegal program may obtain an associate of arts degree with an emphasis in paralegal studies. Paralegal studies may also be used as a minor for a bachelor of arts or bachelor of science degree. Students wishing to take only classes in paralegal studies may receive recognition for successfully completing 21 hours of course work. The required courses and suggested electives are listed under the requirements for the minor. \$tudents must have an adviser in paralegal studies.

Minor in Paralegal Studies

	Semester I	Hours
PLS 201	Intro to Legal Assistan	ce 3
PLS 302	Legal Research	3
Electives	from the following:	15
PLS 298	Topics in Paralegal Studi	ies3
PLS 311	Property*	3
PLS 312	Civil Litigation*	3
PLS 320	Family Law*	3
PLS 401	Wills, Trusts and Probate	*3
GB 301	Legal Environment	
	of Business I	3
GB 302	Legal Environment	
	of Business II	3
PSc 310	Law, Society &	
	Judicial Process	3
PSc 431	Constitutional Law I	3
PSc 432	Constitutional Law II	3
PLS 491	Internship**	3
PLS 498	Senior Seminar**	3
PLS 499	Independent Study**	3
OR One of	the following:	
	Communications Law	3
LE 250	Criminal Law	3
PSc 322	International Law	3
GB 411	Labor Law	3
		21

*Highly Recommended **See Prerequisites

Suggested Order of Study

Associate of Arts Major Code 7999

Emphasis in Paralegal Studies

(This is a general associate of arts degree, NOT a paralegal degree)

Freshman Year 1st Semester

Course		Hour
PLS 201	Intro to Legal Assistance	3
PLS 302	Legal Research	3
CORE	[Eng 101 Comp I]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
Psy 120	College Orientation	1
CORE	[HPER 103 Lifetm Wellness	3 2
CORE	[HPER 101 Physical Activity	y] 1
	医大型性 医	16

2nd Semester

CORE	[Eng 102 Comp II]	3	
CORE	[Hist 110 or 120 U.S. Hist]	3	
CORE	[Math 110 Intro to Col Math]] 3	
CORE	[Bio 101 General Biology]	4	
PLS	Upper Division Electives	3	
		16	

Sophomore Year

1st Semester		
CORE	[Econ 180, Soc 110 or Psy 100]	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Humanities and Fine Arts]	3
PLS	Upper Division Electives	6
		17

2nd Semester

CORE	[Comm 100 Oral Comm]	3
CORE	[Literature]	3
CORE	[Humanities and Fine Arts]	3
PLS 491	Internship	3
PLS		
FLO	Upper Division Elective	3
		15

[Department Recommendations]

Suggested electives are Civil Litigation; Family Law; Property; Wills, Trusts and Probate.

For additional information contact:

Dr. Michael Yates

Office: Webster Hall 234 Phone: 625-9333

Philosophy

Hearnes Hall 312, 625-9659

Faculty Spector - Head, Brown, Harder

Philosophy deals with basic questions from all areas of life and thought-science, religion, art, morality and politics-and helps students refine their views on these subjects. Most importantly, philosophy teaches students how to think: how to analyze problems into their essential elements, how to decide which proposed solution to a problem is supported by the best evidence, how to separate relevant from irrelevant points and how to state issues clearly and precisely. While some philosophy students go to graduate school and become professional philosophers, most go on to careers in such areas as law, medicine, theology, business, government and public service. Philosophy students are highly successful in gaining admittance to law schools, medical schools, graduate schools of management, and theological seminaries.

The department offers a minor in philosophy, which consists of 18 credit hours. Students are required to complete a course in Critical Thinking (Phil 140), a course in Ethics (Phil 212, PSc 411 or a suitable Selected Topics Course) and two courses in the History of Philosophy (Phil 301 and 302). Two courses are elective, at least one of which must be at the 300 level or above.

For additional information contact:

Dr. Stephen Spector Office: Hearnes Hall 314 Phone: 625-9535

Physics and **Pre-Engineering**

Reynolds Hall 210, 625-9376

Faculty Baiamonte - Head, Knapp, Phillips, Sloan, Strobel

Physics graduates obtain a strong diversified background in science and mathematics which will qualify them to enter various areas of employment in industry, government or secondary education, or for entrance into graduate programs in physics and engineering. Students who plan to do graduate work in engineering should, with the help of a faculty adviser, select their free electives in the area they plan to enter.

The physics area of the physical science department participates in cooperative twoyear pre-engineering programs which allow students to complete the first two years of an engineering degree at Missouri Southern and then transfer to an engineering school to complete the remaining two years of the degree. (See page 155).

Bachelor of Science with a **Major in Physics**

Major III I	1193103	
	Semester Ho	ours
Core Require	ments (p. 35) 51*	43
Physics Requ	uirements	36
Phys 250 G	eneral Physics I**	5
Phys 260 G	eneral Physics II**	5
Phys 301 M	odern Physics**	4
Phys 322 C	lassical Mechanics**	3
Phys 341 TI	hermal Physics**	4
Phys 372 E	lectronic Circuits**	4
Phys 381 In	termediate Physics	
L	aboratory**	3
Phys 401 E	lectricity & Magnetism**	4
Phys 452 Q	uantum Mechanics**	
OR		
	elected Topics in	
	hysics & Engineering	3
, -	seminar	1
Supporting I	Requirements	26
Chem 101 G	General Chemistry I**	5
	Calculus with Analytical	
	Geometry I**	5
	Calculus with Analytical	
	Geometry II**	5
	Calculus with Analytical	-
C	Geometry III**	5
	Differential Equations**	3
0011110	ortran	3
Electives***		23
	12	28****

*Required physics, chemistry and mathemat-
ics courses satisfy major requirements and
8 hours of the Core Curriculum.
**Con Proroquisites

Suggested Electives (Chem 102, Comp 200, Math 351, Math 431 and Phys 480) *Must include at least 40 upper division (300 - 400 level) hours.

Bachelor of Science in **Education with a Major** in Physics

Grades 7-12 Certification One of Two Teaching Fields Plan A

	Semester F	lours
Core Requi	rements (p. 35) 51*	36
	equirements	22
Phys 250	General Physics I**	5
Phys 260	General Physics II**	5
Phys 301	Modern Physics**	4
Phys 322	Classical Mechanics**	3
Phys 381	Intermediate Physics	
	Laboratory**	3
Phys 498	Seminar	2
Supporting	Requirements	31
Chem 101	General Chemistry I**	5
Geol 300	Environmental Geology	4
Bio 101	General Biology	4
Math 150	Calculus with Analytical	
	Geometry I**	5
Math 250	Calculus with Analytical	
	Geometry II**	5
Math 260	Calculus with Analytical	
	Geometry III**	5
Comp 115	Computing I or higher	
	(in place of Educ 401)	3
Education	Certification Requireme	ents
(see p. 115		39

*Required physics, chemistry, mathematics, biology and psychologycourses satisfy major requirements and 15 hours of the Core Curriculum.

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Second Teaching Field (some fields

See Prerequisites *Varies with 2nd field

exceed 30 hours)

Bachelor of Science in Education with a Major in Physics

Grades 7-12 Certification Dlan B Single Teaching Field

I Iuii D	omgio i care	
	Semester	Hours
Core Requ	irements (p. 35) 51*	36
	equirements	33
Phys 250	General Physics I**	5
Phys 260	General Physics II**	5
Phys 301	Modern Physics**	4
Phys 312	Statics**	3

Phys 322	Classical Mechanics**	3
Phys 341	Thermal Physics**	4
Phys 372	Electronic Circuits	4
Phys 381	Intermediate Physics	
	Laboratory**	3
Phys 498	Seminar	2
Supporting	Requirements	36
Chem 101	General Chemistry I**	5
Chem 102	General Chemistry II**	5
Bio 101	General Biology	4
Geol 300	Environmental Geology	4
Math 150	Calculus with Analytical	
	Geometry I**	5
Math 250	Calculus with Analytical	
	Geometry II**	5
Math 260	Calculus with Analytical	100
	Geometry III**	5
Comp 115	Computing I or higher	
	(in place of Educ 401)	3
	Certification Requirement	
(p. 115-12	27)	39
		144

*Required physics, chemistry, mathematics, biology and psychology courses satisfy major requirements and 15 hours of the Core Curriculum.

**See Prerequisites

***Suggested Electives (Math 322, Phys 300 and Geol 110)

Minor in Physics

	Semester	Hours
Phys 250	General Physics I	5
Phys 260	General Physics II	5
Physics	Upper Division Electives (excluding Phys 300)	8

Suggested Order of Study

Bachelor of Science Major Code 1902 **Physics Major**

Freshman Year 1st Semester Hours Course 5 Math 150 Calculus I Gen Chem I (Alg & Trig) 5 Chem 101 3 [Eng 101 Comp I] CORE Essential Skills in Physics 3 Phys 140 College Orientation Psy 120

		17
2nd Semeste	r	
Phys 250	Gen Physics I (Math 150)	5
Math 250	Calculus II (Math 150)	5
Elective	[Chem 102 General Chem	11]5
CORE	[Eng 102 Comp II]	3
		18

Political Science / 73

Sophomore	Year		For addition	nal information contact:	
1st Semester			Dr. Russell		
Phys 260	Gen Physics II (Phys 250)	5		ynolds Hall 208	
Math 260	Calculus III (Math 250)	5			
Comp 120	Fortran	3	Priorie. (41	7) 625-9719	
CORE	[Hist 110 U.S. History]	3			
CORE	[HPER 103 Lifetm Wellness]				
OUTLE		8	Bachelor	of Science in Educatio	n
			Major Coo	de 0848	
2nd Semeste	ar.			Major (Plan B)	
	Classical Mechanics (3)				
Phys 322 OR	Classical Mechanics (3)			-12 Certification	
	Thermal Dhysics (4)	-4	Single Te	aching Field	
Phys 341	, , ,			1000	
Phys 372	Electronic Circuits	4	Freshman \		
Math 322	Differential Equations	3	1st Semeste		
CORE	[Hist 120 or 320 U.S. Hist]	3	Course		ou
CORE	[Econ 180 Amer Econ Sys]	3	Psy 100	General Psychology	3
CORE	[HPER 101 Physical Activity]		Math 150	Calculus I	5
	17-1	18	CORE	[Eng 101 Comp I]	3
			Phys 140	Essential Skills in Physics	3
Junior Year			Psy 120	College Orientation	1
1st Semester			Educ 100	Orientation to Educ I	1
Phys 301	Modern Physics	4	CORE	[HPER 103 Lifetm Wellness]	2
Phys 381	Intermediate Physics Lab (3)				18
OR					
Phys 401	Electricity & Magnetism (4) 3	-4	2nd Semest	er	
CORE	[Bio 101 General Biology]	4	Chem 101	General Chemistry I	5
CORE	[Humanities and Fine Arts]	3	Math 250	Calculus II (Math 150)	5
CORE	[Psy 100 Gen Psychology]		CORE	[Eng 102 Comp II]	3
OR	[,,		Phys 250	Gen Physics I (Math 150)	5
CORE	[Soc 110 Sociology]	3			18
001.12	17-1				
			Summer Ses	ssion	
2nd Semeste	ar and a second		Chem 102	General Chemistry II	5
Phys 341	Thermal Physics (4)		Onom roz	denotal energies,	
OR	Themal Thysics (4)		Sophomore	Year	
Phys 322	Classical Mechanics (3) 4	-3	1st Semeste		
Phys 452	Quantum Mechanics		Take C-Base		
OR	Quantum Mechanics		Math 260	Calculus III (Math 250)	5
	Salactive Topics	3	Phys 260	Gen Physics II (Phys 250)	5
Phys 480	Selective Topics Elective	3	Geol 300	Environmental Geology	4
Math	[Comm 100 Oral Comm]	3	Educ 200	Orientation to Educ II	1
CORE		3		Adolescent Psychology	3
CORE	[Humanities and Fine Arts]		Psy 301		18
	10-	5			10
Canian Vann			2nd Semest	or.	
Senior Year					
1st Semester			,,,	mission to Teacher Education. Electronic Circuits	4
Phys 401	Electricity & Magnetism (4)		Phys 372		4
OR		0	Phys 322	Classical Mechanics (3)	
Phys 381	Intermediate Phys Lab (3) 4		OR	The second Discrete (4)	
CORE	[Humanities and Fine Arts]	3	Phys 341	, , ,	-4
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3	Educ 302	The Exceptional Child	2
Phys or Math	Elective	3	CORE	[Comm 100 Oral Comm]	3
Electives		3	Comp 115	Computing I or higher	3
	16-1	15	CORE	[HPER 101 Physical Activity]	
				16-1	17
2nd Semeste					
Phys 452	Quantum Mechanics		Summer Ses		_
OR			Phys 312 St	atics	3
Phys 480	Selective Topics	3			
Phys 498	Seminar	1	Junior Year		
CORE	[International Cultural Stu]	3	1st Semeste		
Electives		9	Pass Media	Competencies.	
		6	Bio 101	General Biology	4
			Phys 301	Modern Physics	4
			Educ 321	Microteaching	2
(Prerequisite	s)				
	s) Recommendations]		Educ 329	Ped Theo Meth & Prac	4
				Ped Theo Meth & Prac	4 2
Department	Recommendations]	ting II	Educ 329		
Department	Recommendations] uld enroll in Comp 120 Compu	ting II	Educ 329 Psy 310	Ped Theo Meth & Prac Educ Psychology (Psy 100) Classroom Management	2

2nd Semester Apply for student teaching. All course work must be completed except for Professional Semester courses Phys 341 Thermal Physics (4) OR Phys 322 Classical Mechanics (3) CORE [Humanities and Fine Arts] CORE [Humanities and Fine Arts] 3 CORE [PSc 120 Gov't: U.S./Sta/Loc] Educ 422 Tchng Rdng in the Sec Sch 2 CORE [Hist 110 U.S. History] 3 17-18 Senior Year 1st Semester Phys 381 Intermediate Physics Lab 3 Phys 498 Seminar CORE [Econ 180 Amer Econ Sys] CORE [Humanities and Fine Arts] 3 CORE [Hist 120 or 320 U.S. Hist] CORE [International Cultural Stu] 3 17 2nd Semester Educ 333 Tchng Sci in Sec Sch 3 2 Foundations of Educ Educ 402 Educ 432 Critical Issues 2 Educ 462 Student Teaching Sec Select One: Indiv Curr Development (2) Educ 412 Educ 420 Intro to Counseling* (3) Psy 412 Meas & Eval (2) 2-3 17-18 *Offered at night only. Must be taken semester prior to student teaching. (Prerequisites)

Political Science

[Department Recommendations]

Dr. Russell Phillips Office: Reynolds Hall 208 Phone: 625-9719

For additional information contact:

Webster Hall, 625-9565

Faculty Tate - Head, St. Clair, Simpson, Yates, Youst

The bachelor of arts degree with a major in political science is appropriate for those students seeking to do graduate work in political science, enter professional schools of law or public administration, join the public service or work in community service as well as general career options. A bachelor of science in education degree with a major in social studies - political science emphasis certifies a student to teach on the secondary school level. A minor in political science is available for students majoring in other dis-

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ciplines. In addition, see page 77for a social science minor or the social studies in secondary education minor.

Core Curriculum requirements and Missouri statute requirements are met by PSc 120.

PSc 120 is a prerequisite for all other political science courses.

Bachelor of Arts with a Major in Political Science

	Compoter	Hours		
Core Regu	Semester irements (p. 35) 51*	48		
Computer	Literacy Requirement -	40		
determine	d by social science			
departmen		2-3		
	inguage (four courses i	_		
one langua		12		
	cience Requirements	36		
PSc 120	Gov't: U.S./State/Local	3		
PSc 201	Intro to Pol Sci Methods			
PSc 498	Seminar in Political			
. 00 100	Science			
OR	Colonico			
	Capital Internship	3		
	course from each of the			
following fo		12		
U.S. Politics				
PSc 301	Political Parties &			
	Elections			
PSc 302	Public Opinion &			
	Pressure Groups			
PSc 311	American Presidency			
PSc 312	Legislative Process			
State and L	ocal Government (3)			
PSc 320	State Government			
PSc 341	Municipal Government			
PSc 342	Public Policy			
PSc 421	Public Administration			
	al Politics (3)			
PSc 321	International Relations			
PSc 331	Comparative			
	Government: Europe			
PSc 332	Comparative			
	Government: Latin Ame	erica		
PSc 411	Political Theory			
PSc 412	Contemporary Political			
I (0)	Thought			
Law (3) PSc 310	Law Cariata and the			
PSC 310	Law, Society and the			
PSc 322	Judicial Process International Law			
PSc 322 PSc 431				
PSc 431	Constitutional Law I			
		15		
Political Science Electives** 15 Electives 29-30				
Liectives		23-30		

*Political Science 120 satisfies major requirements and 3 hours of Core Curriculum.
**See Prerequisites

***Must include at least 40 upper division (300 - 400 level) hours.

Bachelor of Science in Education with a Major in Social Studies

Political Science Emphasis
Grades 7-12 Certification
Plan B Single Teaching Field

Semester Hours

Core Requ	irements (p. 35) 51*	33		
Political So	cience Requirements	15		
PSc 120	Gov't: U.S./State/Local	3		
PSc	Upper Division Electives	12		
Supporting	Requirements	36		
Hist 110	U.S. History 1492-1877	3		
Hist 120	U.S. History 1877-Present			
OR				
Hist 320	U.S. History 1877-Present	3		
Hist 130	Western Civilization to 1660	3		
Hist 140	Western Civilization			
	Since 1660	3		
Hist	Upper Division U.S.**			
	(not 320)	6		
Hist	Upper Division			
	East Asian**	3		
Soc 110	Intro to Sociology	3		
Soc	Upper Division Elective**			
Geog 211	Regions and Nations	3		
Geog	Upper Division Elective	3		
Econ 180	Amer Econ System	3		
Electives		3-4		
Education	Certification Requireme	nts		
(p. 115-127)	40-41		
		128		
*Required p	political science, history, s	ociol-		
ogy and economics courses satisfy major				

Minor in Political Science

**See Prerequisites

	Semester	Hours
PSc 120	Gov't: U.S./State/Local	3
PSc	Electives*	18
		21
*Must be o	hosen with approval of a p	olitical

requirements and 18 hours of Core Curricu-

*Must be chosen with approval of a political science adviser.

Suggested Order of Study

Bachelor of Arts Major Code 2207 Political Science Major

Freshman Vear

i i esiiiiiaii	Icai	
1st Semest	er	
Course		Hours
Foreign Lai	nguage	3
CORE	[Eng 101 Comp I]	3
CORE	[Hist 110 U.S. 1492-1877]	3
CORE	[Math 110 Intro to Col Math	1] 3
CORE	[Comm 100 Oral Comm]	3
Psy 120	College Orientation	1
		16

2nd Semest Foreign Lan		3
CORE	[Eng 102 Comp II]	3
CORE	[Hist 120 U.S. 1877-Present]	_
CORE	[Hist 320 U.S. 1877-Present]	13
CORE	[Bio 101 General Biology]	4
CORE	[Humanities and Fine Arts]	3
		16

Sophomore	Year	
1st Semester	r	
PSc 120	Gov't: U.S./State/Local	3
CORE	[English Lit]	3
Foreign Lang	juage	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[HPER 101 Physical Activity]	1
	1	7

2nd Seme	ster	
CORE	[Econ 201 Prin of Econ-Macro]	3
PSc	[Upper Division Elective	
	approved by adviser]	3
Foreign La	anguage	3
CORE	[Soc 110 Intro to Sociology]	3
Electives		
		17

lumian Va		
Junior Ye		
1st Semes	ster	
PSc	[Upper Division]	6
CORE	[International Cultural Stu]	3
[Computer	Literacy course selected with	
adviser's a	approval]	3
CORE	[Humanities and Fine Arts]	3
		15
0 10	· · · · · · · · · · · · · · · · · · ·	
2nd Seme	ster	

[Upper Division]

Senior Year 1st Semest		
PSc Electives	[Upper Division Electives] [Upper Division]	9 6 15
2nd Semes	ter	

PSc

PSc

Electives

Electives

*Also meets a Core Curriculum requirement.
[Department Recommendations]

[Upper Division]

[Upper Division Elective]

10

For additional information contact: Dr. Donald R. Youst Office: Webster Hall 232 Phone: 625-9795

Preprofessional, Prepharmacy, Sociology / 75

Preprofessional

Police Academy 101, 625-9328

Associate of Arts Degree

This curriculum is designated for Missouri Southern students to complete admission requirements for professional schools that will accept applicants who have completed approximately 60 hours. Also, students who are completing certification requirements for paramedic programs and desire a college degree may choose this degree program.

Prepharmacy

Major Code 7007	
Core Requirements* (p. 35)	14
Eng 101 and 102 English Comp** Chem 101 and 102 General	6
Chemistry**	10
Math 150 Calculus**	5
Social Sciences/Humanities**	14
Bio 306 Human Physiology	
and Anatomy	5
Electives	10
	64

*28 hours of Core requirements are met by UMKC School of Pharmacy minimum requirements.

**UMKC School of Pharmacy minimum requirements.

Sociology

Webster Hall 245, 625-9565

Faculty Tate - Head, Conboy, Gubera, Jordan, Miller

A bachelor's degree with a major in sociology prepares the student for a variety of occupations and graduate programs. Selecting from three bachelor's degree programs including a bachelor of science in education, the student may choose to pursue many careers, for example, those in human and social services, public safety occupations or teaching. Advanced graduate or professional school training could also be a choice for the student who successfully completes one of the bachelor degree programs. A sociology minor with an emphasis in social work is offered with classes focusing on human and social services. In addition, a sociology minor provides students majoring in other areas with special interpersonal, group and organizational knowledge and skills.

See page 77 or a minor in social sciences or the social studies in secondary education

Sociology 110 is a prerequisite to many upper division courses in sociology.

Certain sociology courses may be used to satisfy Core Curriculum requirements. Sociology 110 is an elective for the requirement in Area 3C, Natural and Behavioral Sciences; either Sociology 155 or 342 meet the requirement in Area 5, International Cultural Studies.

Bachelor of Arts with a Major in Sociology

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	Semeste	er Hours
Core Regu	uirements (p. 35) 51*	45
	Literacy Requirement	
	d by social sciences	
departmen		2-3
		-
	anguage (four courses	
one langu		12
	Requirements	30
Soc 110	3,	3
Soc 210	Social Problems**	3
Soc 311	Social Stratification**	3
Soc 342	Comparative Cultures*	* 3
Soc 431	Sociological Research	
	Methods**	3
Soc 482	Sociological Theory**	3
Soc	Electives (3 hrs. must b	ne
000	upper division)	12
Psy 311 A	11 /	12
OR OR	pp Stat	
		0
	Elementary Statistics**	3
	g Area (approved by	
	adviser)***	15
Electives		20-21
		128****

*Required sociology course Soc 110 and 342 satisfies six hours of Core Curriculum requirements.

**See Prerequisites

***A minor is highly recommended.

****Must include at least 40 upper division (300 - 400 level) hours.

Bachelor of Science with a Major in Sociology

Semeste	r Hours
rements (p. 35) 51*	45
Requirements	36
Intro to Sociology	3
	&
Archaeology	3
Social Stratification**	3
Deviant Behavior**	3
Social Research	
Methods**	3
Sociological Theory**	3
Electives (emphasis in	
upper division)	18
Requirements	12
Intro to Micro Use	3
Computer Applications	
for the Soc Sci	3
App Stat for Behavioral	
& Natural Sciences**	
Elementary Statistics**	3
Elective	3
	35
	128***
	rements (p. 35) 51* Requirements Intro to Sociology Physical Anthropology Archaeology Social Stratification** Deviant Behavior** Social Research Methods** Sociological Theory** Electives (emphasis in upper division) Requirements Intro to Micro Use Computer Applications for the Soc Sci App Stat for Behavioral & Natural Sciences** Elementary Statistics**

*Required Sociology course 110 and Soc 342 satisfies six hours of Core Curriculum requirements.

**See Prerequisites

***Must include at least 40 upper division (300 - 400 level) hours.

Bachelor of Science in Education with a Major in Social Studies

Sociology Emphasis **Grades 7-12 Certification**

Plan B Single Teaching		rieia			
	Semester H	Hours			
Core Requirements (p. 35) 51* 33					
Sociology	Requirements	21			
Soc 110	Intro to Sociology	3			
Soc 221	Marriage and Family	3			
Soc 210	Social Problems**	3			
Soc 342	Comparative Cultures**	3			
Soc	Electives (6 hours				
	upper division)**	9			
Supportin	g Requirements	36			
Supportin Hist 110		36			
	g Requirements	3			
Hist 110	g Requirements U.S. History 1492-1877	3			
Hist 110 Hist 120	g Requirements U.S. History 1492-1877 U.S. History 1877-Preser U.S. History 1877-Present	3			
Hist 110 Hist 120 OR	g Requirements U.S. History 1492-1877 U.S. History 1877-Preser	3 nt			
Hist 110 Hist 120 OR Hist 320	g Requirements U.S. History 1492-1877 U.S. History 1877-Preser U.S. History 1877-Present	3 nt			
Hist 110 Hist 120 OR Hist 320	g Requirements U.S. History 1492-1877 U.S. History 1877-Present U.S. History 1877-Present Western Civilization	3 nt 3			
Hist 110 Hist 120 OR Hist 320 Hist 130	g Requirements U.S. History 1492-1877 U.S. History 1877-Present U.S. History 1877-Present Western Civilization To 1660	3 nt 3			

U.S. Electives** (not 320) 6

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2nd Semester

CORE

CORE

CORE

CORE

Foreign Language

Hist	Upper Division		Sophomore	Year				
	East Asian Elective**	3	1st Semeste	r		2nd Semest	er	
Geog 211	Regions and Nations	3	Soc 210	Social Problems**	3	Soc 155	Phys Anthrop & Arch	3
Geog	Upper Division Elective	3	Foreign Lang	guage	3	CORE	[Eng 102 Comp II]	3
PSc 120	Gov't; U.S./State/Local	3	CORE	[Humanities and Fine Arts]	3	CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
			CORE	[Math 110 Intro to Col Math]] 3	CORE	[Comm 100 Oral Comm]	3
PSc	Upper Division Elective**		CORE	[Comm 100 Oral Comm]	3	CORE	[Phys 100 Fund of Phys Sci]	5
Econ 180	Amer Econ System	3			15		and the second s	17
Education	Certification Requireme	nts						
p. 115-12	7)	40-41	2nd Semest	er		Sophomore	Year	
		0-131	Soc	Elective	3	1st Semeste	er	
			Foreign Lan	guage	3	Soc	Elective with approval of advise	3
	courses in history, political		CORE	[Phys 100 Fund of Phys Sci	i] 5	CORE	[Math 131 Finite Math]	3
	ology and economics satisf		CORE	[Hist 120 U.S. History		CORE	[English Lit]	3
or requirer	ments and 18 hours of Core	e Cur-		1877-Present]		Geog	Elective**	3
riculum.			OR			CORE	[Bio 101 General Biology]	4
**See Prer	requisites		CORE	[Hist 320 U.S. History				16
				1877-Present]	3			
Minor in	Sociology				14	2nd Semest	ter	
VIIIIOI II	n Sociology					Soc	Elective	3
	Semester H	Hours	Junior Year	Committee of the commit		CORE	[Humanities and Fine Arts]	3
Soc 110	Intro to Sociology	3	1st Semeste	er		Elective		3
Soc	Electives*	6	Soc 311	Social Stratification**	3	CORE	[HPER 103 Lifetm Wellness]	2
		0	Soc 342*	Comparative Cultures**	3	Elective	[A minor is suggested]	6
Soc	Electives - Upper	10	CORE	[English Lit]	3			17
	Division*	12	Psy 320	App Stat** (Psy 311	1			
		21		or Math 310)	3	Junior Year		
*Coloot wit	th prior approval of a soc	iology	CORE	[HPER 101 Physical Activity		1st Semeste		
	th prior approval of a soc		CORE	[HPER 103 Lifetm Wellness		Soc 311	Social Stratification***	3
adviser. Se	e prerequisites where appli	cable.		100	15	CORE	[Soc 342 Compar Cultures]	3
						Comp 105	Computing I	3
Minor in	n Sociology with		2nd Semest	er		CORE	[Humanities and Fine Arts]	3
	sis in Social Work			Area [A minor is suggested]	5	CORE	[Hist 120 U.S. 1877-Present	
Linhias	SIS III SOCIAI WOIK		Comp 105	[Computing I]	3	OR		191
	Semester H	lours	Electives	[8	CORE	[Hist 320 U.S. 1877-Present	13
Soc 110	Intro to Sociology	3			16	CORE	[HPER 101 Physical Activity	11
Soc 221	Marriage and Family	3						16
Soc 210	Social Problems*	3	Senior Year	remolekaring over 1014				
Soc 306	Sociology of Aging*	3	1st Semeste	er		2nd Semest	ter	
			Soc 431	Sociological Res Methods**	* 3	Soc 362	Deviant Behavior***	3
Soc 331	Intro to Social Work I*	3	Soc	[Upper Division Elective]	3	Soc	Elective	3
Soc 332	Intro to Social Work II**	3	Supporting /	Area [A minor is suggested]	4	Electives	[A minor is suggested]	7
Soc 496	Internship**	3	Soc	Electives	3	Psy 320	App Stat or Math 310***	3
		21	Elective		3			16
See Prere	equisites				16			
	on dependent on departn	nental				Senior Yea	r	
committee			2nd Semest	er		1st Semeste	er	
COMMITTEE	approva.		Soc 482	Sociolgical Theory**	3	Soc 431	Soc Research Methods**	3
				Area [A minor is suggested]	6	Soc	Electives	6
•			Electives	and the second second	7	Elective	[A minor is suggested]	6
Sugges	ted Order of Study				16			15
			*Also meets	a Core Curriculum requireme	ent	2nd Semest	ter	
Bachelor	of Arts		**Prerequisi			Soc 482	Sociological Theory***	3
Major Co	de 2208		[Departmen	t Recommendations]		Soc 300	Computer App in Soc Sci***	
Sociolog						Electives	[A minor is suggested]	9
			The student	is to select a supporting area	a in			15
Freshman				with a sociology adviser.				
1st Semeste	er			jn in in		*Also meets	a Core Curriculum requireme	nt
Course		lours					m Geography 211, 311 or 322	
Soc 110	Intro to Sociology*	3				***Prerequis		
CORE	[Eng 101 Comp I]	3	Bachelor	of Science			t Recommendations	
CORE	[Hist 110 U.S. 1492-1877]	3	Major Cod	de 2220			t is to select a minor in consult	atio
CORE	[Humanities and Fine Arts]	3	Sociolog				ology adviser.	aut
Foreign Lar		3	Sociolog	y iviajoi		With a Socio	nogy advisor.	
Psy 120	College Orientation	1	Freshman '	Year		For addition	onal information contact:	
,		16	1st Semeste					
			Course		Hours	Dr. Conrac	Gubera	

Course

CORE

CORE

CORE

Elective

Psy 120

3

3

3 4

16

[Eng 102 Comp II] [PSc 120 Gov't: U.S./Sta/Loc]

[Econ 180 Amer Econ Sys] [Bio 101 General Biology] Soc 110

For additional information contactor. Conrad Gubera
Office: Webster Hall 228
Phone: 625-9653

Hours

3

3

3

1

16

Intro to Sociology*
[Eng 101 Comp I]
[Hist 110 U.S. 1492-1877]
[Econ 180 Amer Econ Sys]

College Orientation

Social Science, Theatre / 77

Social Science

Webster Hall 245, 625-9565

Faculty Tate - Head, Conboy, Gubera, Holman, Jordan, Krueger, Laas, Markman, Miller, St. Clair, Sale, Simpson, Smith, Tannebaum, Teverow, Yates, Youst

Within the social sciences are the disciplines of geography, history, paralegal studies, political science and sociology.

Each discipline focuses on the study of some aspect or aspects of human societies: their history, government, social organization, laws, physical environment and/or cultural heritage. Students who major or minor in the social sciences prepare for a variety of graduate programs or careers, for example. in teaching, government, law, historic preservation, business, health and human services. Internships are especially helpful in establishing career objectives and obtaining practical knowledge. Social sciences students may apply for internships at the George Washington Carver National Monument, the Dorothea B. Hoover Historical Museum, as a social work minor, a paralegal studies minor, a political science minor, or a sociology major. Also, Missouri State Internships are available.

To satisfy the college-wide computer literacy requirements, the social science faculty suggests students complete Comp 105 Introduction to Microcomputer Use. Other computer literacy requirements apply to the bachelor of science with a major in sociology and to the bachelor of science in education with a major in social studies.

Minors are offered in each of the disciplines within the social sciences. Two general social science minors are also available: a social science minor and a social studies for secondary education minor which qualifies students to teach in junior high and middle schools.

Minor in Social Science

	Semester H	our	
Hist 110	U.S. History	3	
Hist 120	U.S. History		
OR		7	
Hist 320	U.S. History	3	
PSc 120	Gov't: U.S./State/Local	3	
Geog	Elective	3	
Soc	Elective (100 - 200 level)	3	
	e (3) social science		
courses at t	he 300 - 400 level		
(other than	Hist 320)	9	

24

Nine hours of these requirements apply to the Core Curriculum.

Minor in Social Studies for Secondary Education Certification for Grades 7, 8, 9

This minor meets social studies requirements for certifying secondary education majors to teach grades 7 through 9. Students electing this minor must have a social sciences faculty adviser.

Social Studies

	Semester	Нош
Hist 110	U.S. History	3
Hist 120	U.S. History	
OR		
Hist 320	U.S. History	3
	American History	3
PSc 120	Gov't: U.S./State/Local	3
Hist 130	Western Civilization	3
Hist 140	Western Civilization	3
Econ 180	Amer Econ System	3
Geog 211	Regions and Nations	3
		2

Programs and Degree Offerings

See Geography (p. 61); History, (p. 62); Paralegal Studies, (p. 71); Political Science, (p. 73); and Sociology, (p. 75) for specific degree requirements, minors, A.A. paralegal program and suggested orders of study.

Theatre

Taylor Auditorium 243, 625-9393

Faculty Fields - Head, Claussen, D. Hunt, Jaros

Specialized theatre training provides students with a broad academic background that can lead to a number of careers. Graduates of the Missouri Southern theatre department are currently employed in fields such as:

Theatre Performance/Design
Television Production/Performance
Commercials
Public Relations
Stage Management
Graduate Study
Executive Leadership
Recreational Directorship
Technical Theatre
Personnel Management
Government Service
Fashion Industry
TV Anchor

Film Cartoon Director Ministry Magician

Factors Unique to Theatre Department:

- hands-on experience for students in acting, house and stage management, directing and technical design-execution;
- a children's theatre play program performing for over 12,000 people annually from the four state area;
- play participation open to all Southern students, faculty and staff;
- theatre faculty members who have professional experience in their teaching specialties;
- a modern, well-equipped mainstage theatre as well as flexible space for studio productions;
- two theatre organizations: College Players and Alpha Psi Omega, a national dramatic honorary fraternity.

The theatre department offers a bachelor of arts degree with a major in theatre and a bachelor of science in education degree with a major in theatre/speech (plan B). A minor in theatre is also available. During their senior year, all majors must take a final exam covering all areas of the theatre and present a creative exiting project in addition to participating in the college general assessment program.

To satisfy the college-wide computer literacy requirement, theatre majors earning a B.A. should complete Comp 105 or above. Those earning a B.S.E. must take Educ 401.

It is recommended that students pursuing a degree in theatre meet with their faculty adviser at least twice each semester, once in addition to planning their next semester's schedule. More detailed information is available in the theatre office, 243 Taylor Performing Arts Center.

Core Curriculum requirement in Area 2 Humanities and Fine Arts is fulfilled by Th 110 (Theatre Appreciation).

78 / Theatre

Bachelor of Arts with a **Major in Theatre**

	Semester	Hours
Core Requi	irements (p. 35) 51*	42
Computer l	Literacy Requirement	
Comp 105		3
Foreign La	nguage (four courses i	n
one langua		12
	quirements	46
Th 121 122	,221,222 TheatreLabora	tory
(Select two)		4
Th 142	Theatre Technology	3
Th 231	Speech for Stage	3
Th 232	Costume Technology	3
Th 233	Stage Makeup	3
Th 241	Acting I	3
Th 331	History of the Theatre	3
Th 332	History of the Theatre	3 3 3 3 3
Th 341	Acting II**	3
Th 351	Directing I	
Th 362	Stage Costume Design	3
Th 320	Lighting Design	
OR		
Th 361	History of Costume	
OR		
Th 372	Directing II	3
Th 422	Acting III**	
OR		0
Th 431	Creative Dramatics	3
Th 441	Stage Design	3
Th	Electives	9
	g Requirements	
Art 110	Art Appreciation Music Appreciation	3 3 3
Mus 110 Hist 130	OR 140 Western Civ.	3
Electives	OH 140 Western Civ.	16
Electives		128****

*In addition to meeting major requirements, Art 110 and Music 110 satisfy the Core Curriculum requirements in Areas 2A and 2C and Hist 130 or 140 satisfies the requirements in Area 5A.

**See Prerequisites

***A total of 40 upper division hours (300-400) are required, 24 specified in theatre and 16 electives in these areas. One upper division course must be selected from Area 4 or 5 of the Core Curriculum.

****Three writing intensive (WI) courses in addition to English composition must be included. Two of these must be upper division courses and one of the two must be in theatre.

Bachelor of Science in	
Education with a Major in	
Theatre/Speech	
Communications	
Grades 7-12 Certification	
Plan B Single Teaching	Field
Semester H	ours
Core Requirements (p. 35) 51*	48
Computer Literacy Requirements -	
Educ 401	2
Theatre Requirements	17
Th 121 or 122 or 221 or 222 Theatre	
	0

Th 121 or 122 or 221 or 222 Theatre				
	Laboratory	2		
Th 142	Theatre Tech	3		
Th 212	Oral Interpretation	3		
Th 241	Acting I	3		
Th 331	History of Theatre (WI)			
OR				
Th 332	History of Theatre	3		
Th 351	Directing I**	3		
Communication Requirements				
Comm 101	Intro to Human Comm	3		
Comm 215	Interpersonal Comm**	3		
Comm 304	Small Group Comm	3		
Comm 315	Argumentation and			
	Debate**	3		
Theatre or Speech Communication				

Electives***	11
Education Certification	Requirements
(p. 115-127)	38-39
Electives	3
	121 122

*Required course in psychology counts 3 hours toward Core Curriculum requirements, Area 3C.

See Prerequisites *Must be approved in advance by the student's adviser who must be selected from either the area of speech communication or

Minor in Theatre

		Semester Hours
Th 101	100 001	222 Thoatro

Th 121, 122, 22	21, 222 Theatre	
Laboratory (Se	lect two)	4
Th 110 Theatre	e Appreciation	3
Choose a total	of 11 hours from the	
following list of	classes:	11*
Th 142 Th	001110 10011111111111111111111111111111	3
		3
Th 233 Sta		3
	oodii ioi olage	3
Th 251 Au	idition Techniques	
	the Actor	1
Th 232 Co	0101110	3
Th 311 Sta	3	3
Th 241 Ac	eting I	3
Th 298 Ex	plorations in	
Th	neatre (when offered)	3
Th 320 St	age Lighting**	3
Th 331 Th	neatre History (WI)	3
	neatre History	3
Th 333 Ea	astern Theatre Tradition	
Th 341 Ac	ctina II**	3

Th 351	Directing I	3
Th 361	History of Costume	3
Th 362	Stage Costume Design	3
Th 372	Directing II**	3
Th 422	Acting III**	3
Th 441	Stage Design	3
		18

*All courses must be selected with adviser approval. Six hours must be upper division. **See Prerequisites

Suggested Order of Study

Bachelor of Arts Major Code 1007 **Theatre Major**

ear	
r	
	Hou
Theatre Lab	2
Speech For Stage	3
Stage Makeup	3
[Eng 101 Comp I]	3
[HPER 103 Lifetm Wellne	ss] 2
[Comm 100 Oral Comm]	3
College Orientation	1
	17
	Theatre Lab Speech For Stage Stage Makeup [Eng 101 Comp I] [HPER 103 Lifetm Wellne [Comm 100 Oral Comm]

2nd Seme	eter	
Th 142	Theatre Tech	3
Th 241	Acting I	3
CORE	[Hist 140 West Civ]	3
CORE	[Eng 102 Comp II]	3
CORE	[Math 110 or above]	3
		15

Sophomore	Year	
1st Semeste	r	
Th 341	Acting II*	3
Th 221	Theatre Lab	2
Comp 105	or above Computer Literacy	
	Requirement	3
CORE	[Area 2-A Elective]	3
CORE	[English Literature Choice]	3
CORE	[Hist 110 U.S. 1492-1877]	3
CORE	[HPER 101 Physical Activity]	1

Th 422	Acting III*#	3
Th 232	Costume Tech	3
Th	Elective	3
Art	Elective (support req)	3
CORE	[Area 2-C Elective]	3
CORE	[Psy 100 or Soc 110]	3
		18

[Psy 100 or Soc 110]	3 18
mahili kepal ding	
	3
	3
	4
[Bio 101 General Biology]	4
uage	3
	17
er	
Stage Costume Design	3
[Hist 120 U.S. 1877-Pres]	3
[Phys 100 Physical Science	e] 5
guage	3
	Oral Interpretation Stage Design* Electives [Bio 101 General Biology] guage er Stage Costume Design [Hist 120 U.S. 1877-Pres] [Phys 100 Physical Science

[Econ 180 Amer Econ Sys] 3

CORE

Senior Year 1st Semeste Th 320 Th 331 Th 351 Foreign Lang Elective	r Lighting Design# History of Theatre Directing I	3 3 3 3
2nd Semeste Th 332 Th 372 Foreign Lanç CORE Elective	History of Theatre Directing II*#	3 3 3 3 3 15
*See prerequ	estituted for approved class i	n tech
	Electives: Art, Business, Communicati iic,Computer Science	ons,
Dr. Jay Fiel	for Performing Arts Center	er 243
Major Cod Speech ar	nd Theatre 12 Certification	
Freshman Y 1st Semester		
Courses Educ 100 Psy 100 Th 121 CORE Psy 120 CORE CORE Th	Orientation to Education I General Psychology Theatre Lab [Eng 101 Comp I] College Orientation [Comm 100 Oral Comm] [HPER 101 Physical Activit Elective - Makeup	Hours 1 3 2 3 1 3 y] 1 3 17
2nd Semeste Th 142 CORE CORE CORE CORE CORE CORE	r Theatre Tech [Area 2-A Elective] [Hist 110 U.S.1492-1877] [Eng 102 Comp II] [HPER 103 Lifetm Wellness [Math 110 or above]	3 3 3 3 5] 2 3
Sophomore 1st Semester Take C-Base		

	mission to teacher education. 2 The Exceptional Child Computer Software Interpersonal Comm [PSc 120 Gov't: U.S./Sta/Loc] Elective* Acting I Adolescent Psychology	2 2 3 3 3 3 3 3 19
	competencies.	
1st Semester		
Psy 310	Educational Psychology	2
Educ 329	Ped Theo, Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2 2 3
Comm 304	Small Group Comm	
CORE	[Area 5-A Elective]	3
		16
Note: See E	duc 420 below**	
2nd Semeste	ar .	
Educ 422	Tchng Rdng in the Sec Sch	2
Th	Electives*	4
CORE	[Phys 100 Physical Science]	5
CORE	[Area 2-B Elective]	3
Electives	The Committee of the co	2
	to the second second second	16
是 等 。 过 各 1.0		

Senior Year

1st Semester

Apply for student teaching. All course work must be completed except for Professional Semester courses.

Th 331	History of Theatre	3
Th 351	Directing I	3
Comm 315	Argumentation & Debate	3
CORE	[Bio 101 General Biology]	4
Th	Electives*	3
		16

2nd Semest	er	
Educ 344	Tchng Spe & Th in Sec Sch	2
Educ 402	Foundations in Educ	2
Educ 432	Critical Issues	2
Educ 412 OR	Indiv Curr Development (2)	
Educ 420	Intro to Counseling** (3)	

OR
Psy 412 Meas & Eval (2)
Educ 462 Stu Tchng in Sec Sch

[Department Recommendations]

*See prerequisites

**Offered at night only. Must be taken the semester prior to student teaching.

For additional information contact:

Dr. Jay E. Fields

Office: Taylor Performing Arts Center 243

Phone: 625-9393

Course Descriptions

Art (Art)

Art 101 (F and/or S)

3 hrs. cr.

Basic Design

Foundation studio course using design principles and elements of structure. Six studio hrs. per week.

Art 105 (F and/or S)

Design and Color Theory

3 hrs. cr.

Foundation studio course dealing with the theories, problems and applications of color. Six studio hrs. per week.

Art 110 (F, S)

3 hrs. cr.

Art Appreciation

A survey designed to increase appreciation of the visual arts through readings, slide lectures, library research and visits to the Spiva Art Center. Development of the cognitive and critical processes as they relate to the visual arts are emphasized. Specially recommended toward meeting Core Curriculum requirements for nonart majors.

Art 120 (F and/or S)

3 hrs. cr.

Beginning Ceramics

Methods and techniques of throwing and/or hand building with application of glazing and firing. Six studio hrs. per week. Lab fee required.

Art 130 (F and/or S)

Beginning Drawing

3 hrs. cr.

Development of perceptual drawing skills through the study of line, value, perspective, composition and reduction of form using various media. Six studio hrs. per week.

Art 200 (F or S)

3 hrs. cr.

Basic crafts survey exploring materials and processes of traditional and contemporary handicrafts.

Art 205 (F and/or S)

2-3

16-17

3 hrs. cr.

Beginning Jewelry Design/Metalsmithing

Creative exploration of design fabrications, casting and forging processes. Six studio hrs. per week. Lab fee required. Prerequisite: Art 101 and/or Art 105 or approval of instructor.

Art 211 (F and/or S)

3 hrs. cr.

Beginning Sculpture

Exploration of forming methods involving wood, clay, plaster and mixed media with emphasis on additive and subtractive techniques. Six studio

additive and subtractive techniques. Six studio hrs. per week. Lab fee required. Prerequisite: Art 105 and/or Art 230, or approval of instructor.

Art 220 (F, S)

2 hrs. cr.

Art Education

Creative art activities using media and processes with emphasis on methods of instructing art in elementary school. Required for both elementary education majors and secondary art education majors.

80 / Courses • Art

Art 230 (F and/or S) **Basic Form**

3 hrs. cr.

Studio exploration of the relationships of parts to form. Projects include two and three dimensional problems. Six studio hrs. per week. Lab fee required. Prerequisite: Art 101.

Art 232 (F and/or S)

3 hrs. cr.

Beginning Painting Procedures, techniques, historical processes and

basic fundamentals of painting with oil. Six studio hrs. per week. Lab fee required. Prerequisite: Art 101 and Art 130.

3 hrs. cr.

Typography and Lettering

A studio course introducing the art of lettering/ typography. Designed to develop the skills needed to competently use the tools, materials and methods employed by professionals in rendering layouts and comprehensives. All assignments use lettering or typography as the primary design element. Six studio hrs. per week. Lab fee required.

Art 300 (F and/or S)

3 hrs. cr.

Advanced Drawing

Advanced investigation of various drawing elements including compositions, structure and aesthetics. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 101 and Art 130 or approval of instructor.

Art 301 (F. Even)

3 hrs. cr.

Art History, Prehistoric Through Gothic Historic survey of the visual arts from prehistoric through the Middle Ages. Primarily in the Near East, North Africa and Europe.

Art 302 (S, Odd)

3 hrs. cr.

Art History, Renaissance Through Baroque Historical survey of the visual arts of Europe from the Early Renaissance through the Baroque and Rococo. Comparative study of other cultures included.

Art 303 (F, Odd)

3 hrs. cr.

Art History, 19th Century

Historic survey of the visual arts of Western Europe and the United States focusing primarily upon the styles of Neo-Classicism, Romanticism, Realism, Impressionism and Post-Impression-

Art 304 (S, Even)

3 hrs. cr.

Art History, 20th Century

Study of the mainstreams of Western Art in Europe and the United States, including its sources and influences. Emphasis placed on the succession of modernist art movements in France and Germany from 1900 to 1945 and in the United States from 1945 to present.

Art 305 (Demand)

3 hrs. cr.

Seminar

Student art problems investigated with group participation. Requirements: research papers and oral presentations of investigated problems. Prerequisite: 21 credit hrs. in art. Strongly recommended by the art faculty.

3 hrs. cr.

Transparent Watercolor

Techniques and aesthetic processes of watercolor painting using landscape, figures and still lifes as subjects. Six studio hrs. per week. Lab fee required. May be repeated for a total of six credit hrs. Prerequisite: Art 130 or permission of instruc-

Art 312 (F and/or S)

3 hrs. cr.

Beginning Printmaking

Procedures, techniques and fundamentals of the relief, intaglio process: etching, drypoint, aquatint, softground; collagraph printmaking and monotypes. Emphasis on drawing and design. Six studio hrs. per week. Lab fee required. Prerequisite: Art 130

Art 321 (F and/or S)

3 hrs. cr.

Advanced Sculpture

Extension of Beginning Sculpture with introduction to the lost wax technique of casting bronze sculpture. Each student is permitted to cast one piece per semester. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 211.

Art 322 (F and/or S)

3 hrs. cr.

Advanced Sculpture

Continuation of Art 321. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs.

Art 325 (F)

3 hrs. cr.

Graphic Communications I

Introduction to commercial art with an emphasis on the recognition, duplication, function and aesthetic use of typography/pictorial images as a visual language. Includes lettering, layout and type/image relationships. Six studio hrs. per week. Lab fee required. Prerequisite: Art 101, Art 105 and Art 130.

Art 330 (F and/or S)

3 hrs. cr.

Advanced Jewelry Design/Metalsmithing

Exploration of advanced methods and techniques of complex forms for jewelry and metalsmithing design. Six studio hrs. per week. Lab fee reguired. May be repeated for a total of 6 credit hrs. Prerequisite: Art 205 or approval of instructor.

Art 350 (S)

3 hrs. cr.

Graphic Communications II

Continued study of Graphic Communications I with an emphasis on the design and preparation of two-dimensional projects for printing and/or video reproduction. Includes an introduction to the development of an individual portfolio. Six studio hrs. per week. Lab fee required. Prerequisite: Art 325.

Art 401 (F and/or S) **Advanced Painting** 3 hrs. cr.

Students select an individual problem for selfdevelopment using a variety of media. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 130 and Art 232.

Art 407 (F and/or S)

3 hrs. cr.

Advanced Ceramics

Advanced methods, techniques and procedures of pottery making and design in clay. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 120 or approval of instructor.

Art 420 (F and/or S)

3 hrs. cr.

Special Projects in Art I

Advanced studio survey selected by the student in a particular area of art. Students attend a regularly scheduled course of related content but complete an independent special project approved by the instructor. Requirements: (1) an exhibit of the special project two weeks before the end of the semester and (2) a formal paper documenting the special project(s). Prerequisite: Completion of 2 advanced courses in the same area of concentration and approval of instructor and department head. Lab fee may be required. May be repeated for a total of 6 credit hrs.

Art 421 (F and/or S)

3 hrs. cr.

3 hrs. cr.

Life Drawing

Drawing and/or painting the human figure with emphasis on anatomy, structure and form. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisites: Art 130 and Art 232.

Art 425 (F)

Graphic Communications III

Continued study of Graphic Communications II with an emphasis on the design and preparation of two and three-dimensional projects for printing and/or video reproduction. Includes an introduction to computer-aided graphic techniques and equipment. Six studio hrs. per week. Lab fee required. Prerequisite: Art 350.

Art 430 (F and/or S)

3 hrs. cr.

Advanced Printmaking

Stencils (silkscreen), lithographic, advanced intaglio, relief and monoprint processes. Advanced studio methods for color registration and mixed media procedures. Emphasis on design, drawing concept, technical proficiency and presentation. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 312 or approval of instructor.

Art 440 (F and/or S)

3 hrs. cr.

Special Projects in Art II

Same as Art 420. May be repeated for a total 6 credit hrs. Lab fee may be required.

3 hrs. cr.

Graphic Communications IV

Advance study of graphic design layout, production and/or video reproduction. Includes advanced projects with computer-aided graphic techniques and equipment. Completion of an individual portfolio is required. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 425.

Courses • Biology / 81

Art 475 (Demand) 1-8 hrs cr **Graphic Communications Internship**

An off-campus work experience in a professional setting for advanced art majors with a graphic communications emphasis. All internships must conform with institutional policy regarding the number of hrs. per credit and with contractual agreements involving the cooperating organization. Prerequisite: 6 hrs. of graphic communications, junior standing or above and approval of departmental committee.

Art 490 (F) Senior Exhibit 2 hrs. cr.

Prepares senior art majors for their exhibit which is normally scheduled during May in the Spiva Art Center. One hr. lecture, 2 hrs. of studio per week. Prerequisite: Senior standing and permission of the Junior Review Committee.

Biology (Bio)

Bio 101 (F, S) General Biology 4 hrs. cr.

General treatment of unifying principles of living organisms including cell structure and function, metabolism, genetics, evolution and ecology. Emphasis on these biological principles as they relate to humans. Three lectures, one 2-hr. lab per week. Fulfills Core Curriculum requirement in Area 3, section A for most majors.

Bio 112 (F, S) **Botanical Survey** 3 hrs. cr.

Morphology, physiology and classification of plants are studied with emphasis on diversity of plants. Two lectures, one 2-hr. lab per week. Prerequisite: Bio 101.

Bio 121 (F, S) **General Zoology** 4 hrs. cr.

Introduction to the basic principles of human cytology, histology, metabolism and genetics. Emphasis on anatomy and physiology of humans in preparation for Bio 306. Three lectures, one 2hr. lab per week. Fulfills Core Curriculum requirement for physical education and certain health related technology majors.

Bio 122 (F, S)

3 hrs. cr.

Zoological Survey

Morphology, physiology and classification of animals with emphasis on the diversity of animals. Two lectures, one 2-hr. lab per week. Prerequisite: Bio 101 or 121.

Bio 210 (F, S)

3 hrs. cr.

Molecular and Cellular Biology

(Writing Intensive)

Physiological characteristics and function at the cellular and molecular levels of both plant and animal cells. Three lectures, one 2-hr. lab per week. Prerequisites: Bio 112, 122, Chem 102.

Bio 231 (F, S)

5 hrs. cr. General and Medical Microbiology

For students interested in medical professions. Topics include general principles of microbiology. immunology and identification of microorganisms. Three lectures, two 2-hr. labs per week. Prerequisite: Bio 101 or 121.

Bio 240 (S)

3 hrs. cr.

Radiation Biology

Survey of various types of radiation affecting humans, the uses of radiation and methods for monitoring radiation levels. Emphasis on the physiological damage that occurs to tissues following ionizing radiation. Three lectures per week. Prerequisites: Five hrs. of chemistry or acceptance into the School of Radiologic Technology.

Bio 261 (Demand) **Animal Nutrition**

3 hrs. cr.

Biochemistry and fundamental principles of animal nutrition with special emphasis given to livestock feeding and production. Three lectures per week. Prerequisite: Chem 300 or 301 or permission. (Does not count toward any biology major.)

Bio 271 (Demand)

3 hrs. cr.

Principles of Plant Propagation

Principles of plant propagation, emphasizing three specific areas: the physiology of plant growth and the anatomy of plants as topics related to propagation; propagation methods; and technical skills such as budding, grafting and making cuttings. Two lectures, one 2-hr. lab per week. (Does not count toward a biology major.)

Bio 290 (Demand)

2 hrs. cr.

Research Methods in Biology

Development of investigational and technical skills required in biology and related fields. Students learn to use the library and to prepare proposals and reports. Familiarizes students with field and laboratory techniques, research design and statistical analysis. Lecture and lab equivalent to 2 hrs. of lecture per week. Recommended for students who wish to enroll in Bio 499 Problems in Biology. Prerequisite: Bio 112 or 122.

Bio 298 (Demand)

1-8 hrs. cr.

Selected Topics in Biology

Specific topic or topics not normally included in another course. Prerequisites: Bio 112 and 122 or permission.

Bio 303 (Demand)

2 hrs. cr.

Computer Applications in Biology

Explores ways in which microcomputers are used to better understand and study biological phenomena. Develops computer literacy and technical expertise required in research, graduate school, teaching and in many other occupations. One lecture, 3-hrs. of lab per week. Prerequisites: Bio 101 and an introductory course in computing or permission.

Bio 305 (F, S)

Genetics (Writing Intensive) Introduction to principles of heredity, gene structure, expression and regulation. Emphasis on cytological and molecular approaches to nucleic acid replication, transcription, translation and other genetic mechanisms. Lab exercises illustrate genetic principles and techniques used in modern genetic research. Three lectures, one 2-hr. lab per week. Prerequisite: Bio 101.

Bio 306 (F, S)

5 hrs. cr.

Human Physiology and Anatomy

Structure and function of the human body with emphasis on physiological processes and their anatomical basis. Three lectures, two 2-hr. labs per week. Credit toward the biology major may include Bio 306 or 431, but not both. Prerequisite: Bio. 121 or permission.

Bio 308 (Demand) Pathophysiology

4 hrs. cr.

Altered physiological states, the cellular manifestations and causes of disease and adaptation to the alterations. Three lectures, one 3-hr. lab per week. Prerequisites: Bio 306 and 211 or 231.

Bio 312 (F)

4 hrs. cr.

Environmental Biology (Writing Intensive) Environmental factors and their interactions with living organisms. Emphasis on human ecology and wise natural resource utilization. Three lectures, one 2-hr. lab per week. Prerequisite: Bio 112 and 122 or permission. (Double listed in Environmental Health Technology.)

Bio 316 (F)

3 hrs. cr.

Economic Botany

Economic uses of plants and present and possible future value of lower plants. Emphasis on economic aspects of higher plants from an agricultural, horticultural and crop selection viewpoint as well as from a view of pharmacological usage, etc. Three lectures a week. Prerequisite: Bio 101.

Bio 322 (S)

4 hrs. cr.

Taxonomy of Flowering Plants

Relationships among selected plant groups with emphasis on classification and descriptions of taxa, nomenclature and concepts concerning the evolutionary sequence of various plant characters. Southwestern Missouri flora emphasized. Two lectures, two 2-hr. labs per week. Prerequisite: Bio 112.

Bio 331 (F)

5 hrs. cr.

Comparative Vertebrate Anatomy

Fundamental course designed to enhance understanding and appreciation of the structure and adaptions of vertebrates. Emphasis on evolution and the relationship between structure and function. Two lectures, two 3-hr. labs per week. Prerequisite: Bio 122.

Bio 332 (F, Even)

3 hrs. cr.

Introduction to Entomology

Collecting methods, taxonomy, life history, morphology and evolution of insects. Two lectures, one 3-hr. lab per week. Prerequisite: Bio 122.

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Bio 342 (Demand)

2 hrs. cr.

Microtechnique

Principles of preserving, fixing, staining and mounting biological materials. Two 2-hr. labs per week. Prerequisites: Bio 112 and 122.

Bio 352 (Demand)

2 hrs. cr.

Biomes

Indepth study of a selected ecosystem. The interactions between plants and animals with their abiotic environment is studied in the classroom and during an extended field trip usually lasting one week or more. The habitat chosen for study varies from year to year and some trips require physical conditioning or specialized training. Living conditions range from primitive to reasonably comfortable dormitories. Students are required to bear the cost of the trip. Prerequisites: Bio 112, 122 and permission.

Bio 361 (F, Even)

4 hrs. cr.

Parasitology

Systematic investigation of the numerous parasites found in vertebrates. Emphasis on life cycles of parasites which infect humans and domestic animals. Three lectures, one 3-hr. lab per week. Prerequisite: Bio 122.

Bio 362 (F, Odd)

4 hrs. cr.

Virology

Structure, classification and life cycles of bacterial, animal and plant viruses, their significance in disease (including cancer) and the use of viruses in modern biological research. The laboratory will stress the cultivation of viruses in bacterial and other cells. Three lectures, one 3-hr. lab per week. Prerequisites: Bio 231 and 305.

Bio 370 (Demand)

4 hrs. cr.

Environmental Health

Contemporary environmental health problems and public protection measures including public disease prevention, vector control, etc. Three lectures, one 2-hr. lab per week. Prerequisites: Bio 231 or permission. (Double listed in Environmental Health Technology.)

Bio 371 (Demand)

4 hrs. cr.

Plant Physiology

Introduction to plant physiology emphasizing a review of the cell, plant biochemistry, regulation of plant development and factors producing physiological stress in plants. Three lectures, one 2-hr. lab per week. Prerequisites: Bio 112 and

Bio 380 (S, Odd)

2 hrs. cr.

Epidemiology

Introduction to the concepts, principles and methods generally useful in the surveillance and investigation of communicable disease. Prereguisites: Bio 290, EHT 312, (Bio 312) and EHT 370, (Bio 370) or permission. (Double listed in Environmental Health Technology.)

Bio 402 (S)

4 hrs. cr.

General Ecology (Writing Intensive) Study of plant and animal communities and their interaction within the environment. Emphasis on flora and fauna of Southwest Missouri and soils, climate and other major environmental factors responsible for the distribution and association of plants and animals. Three lectures, one 3-hr. lab per week. Prerequisites: Bio 112 and 122 or permission.

Bio 422 (Demand)

Invertebrate Zoology

5 hrs. cr.

Classification, morphology, physiology, development and evolution of invertebrate animals. Three lectures, two 2-hr. labs per week. Prerequisite:

Bio 431 (Demand) 5 hrs. cr.

Animal Physiology

Comparative approach to the physiology of animals with emphasis on laboratory studies using local species. Three lectures, two 2-hr. labs per week. Credit toward the biology major may include Bio 306 or 431, but not both. Prerequisite: Bio 331.

Bio 433 (S. Even)

4 hrs. cr.

Histology

Detailed study of microscopic structure of animal tissues and organs with special emphasis on mammalian tissue. Three lectures, one 3-hr. lab per week. Prerequisite: Bio 122.

Bio 440 (Demand)

4 hrs. cr.

Plant Pathology

Historical significance of plant pathology, the physiological response of plants to abiotic factors, the anatomical and physiological aspects of plant susceptibility to disease and examples of management systems. Includes major diseases caused by bacteria, fungi and viruses. Three lectures, one 2-hr. lab per week. Prerequisite: Bio

Bio 442 (S, Even)

5 hrs. cr.

Pathogenic Bacteriology

A basic study of the structure, identification and pathology of the infectious bacteria. Three hours of lecture and two 2-hr. labs per week. Prerequisite: Bio 231.

Bio 450 (F, S)

1-8 hrs. cr.

Internship in Biology

In conference with a departmental board a half semester in advance, the student shall elect to work and observe in any area of applied biology in which on-the-job experience would be beneficial to the student's training. Prerequisites: At least a second semester junior standing in biology with a minimum of 20 biology hrs. and 20 senior hrs. or permission.

Bio 456 (S, Even)

4 hrs. cr.

Immunology

Cellular and molecular basis of the immune response in vertebrates including structure, induction and regulation of the immune response. Autoimmune disorders, vaccines, transplantation and diagnostic immunology will also be presented. The laboratory will stress the induction and manipulation of the immune response. Three lectures and one 3-hr. lab per week. Prerequisites: 231 and 305.

Bio 462 (S, Odd)

5 hrs. cr.

Embryology

Detailed comparisons of developmental process of members of the classes of vertebrates. Three lectures, two 2-hr. labs per week. Prerequisite: Bio 481 (S, Odd)

4 hrs cr

Aquatic Ecology

Analysis of components of freshwater systems, both impoundment and stream environments. Three hrs. lecture, one 2-hr. lab per week. Prerequisite: Bio 122.

Bio 490 (F, S)

1 hr. cr.

Seminar

Faculty supervised discussion group concerned with reviews and presentation of reports covering current topics in biology. Students will present reviews in their various areas of interest. One meeting per week. Prerequisites: Primarily for biology majors of junior standing or interested students with at least 15 hrs. of biological science. Bio 490 may be repeated for additional credit.

Bio 498 (F, S)

1-5 hrs. cr.

Seminar in Biology

For upper division majors only. Meets regularly a minimum number of hrs. Designed to give specialized instruction in some discipline of biology not covered in other courses. Prerequisites: Junior standing, 20 hrs. in biology and a minimum GPA of 2.5 in biology or permission.

Bio 499 (F, S)

1-3 hrs. cr.

Problems in Biology

Individual work under the supervision of a staff member, with the credit and hrs. to be arranged. Problems may be undertaken in any field of biology, with adequate preparation and the consent of the supervising instructor, department head and school dean. Prerequisite: Minimum GPA of 3.0 in 20 hrs. of biology.

Chemistry (Chem)

Chem 100 (F, S)

5 hrs. cr.

Introductory Chemistry

Basic principles and practical applications of inorganic, organic and biochemistry which satisfies the needs of students in certain health-related programs. Four lectures, one 3-hr. lab per week. Prerequisite: Math 30 or satisfactory score on the Mathematics Placement Test.

Chem 101 (F, S, SS) General Chemistry I 5 hrs. cr.

Introduction to theories of chemistry with emphasis on the relationship of structure to properties of matter and the quantitative aspect of these changes. Four lectures, one 3-hr. lab per week. Prerequisite or corequisite: Math 140 or higher level math course.

Chem 102 (F, S, SS) General Chemistry II 5 hrs. cr.

Continuation of Chem 101. Emphasis on the dynamics and thermodynamics of chemical processes and on the properties and reactions of analogous groups of cations and anions. Four lectures, one lab per week. Prerequisites: Chem 101 with a minimum grade of "C" or permission of instructor and Math 140 or higher level math course

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Chem 190 (Demand) 1-2 hrs. cr. Laboratory in Chemistry

A lower division laboratory course to be used by students who are transferring chemistry courses without a laboratory to MSSC. This will make the transferred course equivalent to the MSSC course. Class may be repeated for credit as needed.

Chem 201 (F) 5 hrs. cr. Analytical Chemistry I

Standard first course in quantitative chemical analysis. The lecture and lab include the theory and practice of methods of analysis. While the primary emphasis in the first semester is on the interpretation of the experimental results, other aspects of the analytical process are introduced. Three lectures, two 3-hr. labs per week. Prerequisite: Chem 102.

Chem 297 (F, S) 1-3 hrs. cr Introduction to Research in Chemistry (Writing Intensive)

Introduction to research techniques; laboratory work and literature search under the supervision of an instructor on a chemical research project. Involves laboratory experimentation as well as a written report on a project from any area of chemistry. Open to students having 1) a minimum of 15 hours of chemistry, 2) freshman or sophomore standing, 3) the ability to undertake independent work and 4) permission of the instructor. Enrollment must be approved by the adviser and the department head.

Chem 298 (F, S) 1-3 hrs. cr. Selected Topics in Chemistry

Special topics in chemistry not normally included in other courses. Prerequisite: Chem 201 or permission of instructor.

Chem 300 (S) 5 hrs. cr. Introduction to Modern Organic Chemistry (Writing Intensive)

Principles of organic chemistry—nomenclature, structure, properties, stereochemistry, reactions—will be studied by the functional group approach. Designed for students who require a general knowledge of organic chemistry in their chosen career or as background for other courses in technical or professional training programs. Four lectures, one 3-hr. lab per week. Prerequisite: Chem 102.

Chem 301 (F) 5 hrs. cr. Organic Chemistry I

Deals with both Aliphatic and aromatic compounds, their nomenclature, properties, reactions, stereochemistry. The functional group approach is used: hydrocarbons (saturated, unsaturated, aromatic) and their derivatives are studied. Brief introduction to organic spectroscopy included. Four lectures, one 3-hr. lab per week. Prerequisite: Chem 102.

Chem 302 (S) 5 hrs. cr.

Organic Chemistry II (Writing Intensive)
Continuation of Chem 301. Organic-spectroscopy discussed in detail. The functional group approach is continued: Aryl halides, phenyls, aldehydes and ketones, carboxylic acids, amines and polyfunctional compounds are covered. A mechanistic treatment of substitution, elimination, addition and free radical reactions is employed. Organic spectroscopy emphasized in both lecture and lab. Four lectures, one 3-hr. lab per week. Prerequisite: Chem 301.

Chem 320 (S) 2 hrs. cr. Applications of Computers in Chemistry

Applications of microprocessors and modern microcomputers in chemistry: management of chemical information; chemical data collection, reduction and quantitation; use of remote information systems (via modem); analytical instrument interfacing; publication. Prerequisite: Chem 301 and Comp 110 or higher lever computer science course.

Chem 351 (F) 4 hrs. cr. Biochemistry (Writing Intensive) Fundamental concepts of the chemistry of lipids, carbohydrates and proteins with emphasis on the physiological aspects of these compounds. The interrelationship of these compounds in living systems will be presented through bioenergetics and reaction pathways. Three lectures, one 3-hr. lab per week. Prerequisite: Chem 300 or 302.

Chem 390 (Demand) 1-2 hrs. cr. **Laboratory in Chemistry**

A upper division laboratory course to be used by students who are transferring chemistry courses without a laboratory to MSSC. This will make the transferred course equivalent to the MSSC course. Class may be repeated for credit as needed.

Chem 401 (F, Odd) 4 hrs. cr. Physical Chemistry I

Development of laws of thermodynamics to explain the relationships between properties of systems at equilibrium. Ideas of thermodynamics are first applied to equilibria between different phases and then to chemical reactions. Three lectures, one 3-hr. lab per week. Prerequisites: Math 250 and Phys 260.

Chem 402 (S, Even) 4 hrs. cr. Physical Chemistry II

Continuation of Chem 401. A microscopic approach to the understanding of chemical and physical properties of chemical systems and a study of the rates at which chemical and physical processes occur. Studies of: quantum theory, molecular electronic structure, molecular spectroscopy, statistical mechanics, kinetic theory of gases and chemical kinetics. Three lectures, one 3-hr. lab per week. Prerequisite: Chem 401.

Chem 421 (S) 5 hrs. cr. Analytical Chemistry II

Continuation of Chemistry 201. A study of the overall analytical process. Lecture and lab deal mainly with electrochemical and spectrophotometric methods of analysis and their application in chemical analysis, but also include other physiochemical and separatory techniques used in modern analytical processes. Three lectures, two 3-hr. labs per week. Prerequisite: Chem 201.

Chem 422 (S, Even)

4 hrs. cr.

Advanced Inorganic Chemistry

Contemporary state of the several bond models in chemistry, a review of the energetics of reactions and coordination theory, followed by the chemistry of the families of the elements in the periodic table. Three lectures, one 3-hr. lab per week. Prerequisites: Chem 102 and Math 250.

Chem 472 (S, Odd)

4 hrs. cr.

Organic Qualitative Analysis

Systematic identification of organic compounds and mixtures; organic spectroscopy is emphasized. Two lectures, two 3-hr. labs per week. Prerequisite: Chem 302.

Chem 496 (F, S) 2 hrs. cr. **Problems in Chemistry** (Writing Intensive) A practical research class especially designed for student seeking a bachelor of science in education with a major in chemistry. The class involves laboratory work and a literature search under the supervision of an instructor on a chemical research project. Involves lab experimentation as well as written report on a project from any area of chemistry. Open to students needing a problems course in chemistry to satisfy Missouri Certification Standards for Secondary Teachers in Chemistry. Students must have a minimum of 20 hours of chemistry and permission of the instructor. Enrollment must be approved by the adviser and the department head.

Chem 497 (F, S)

Research in Chemistry

Independent research techniques; lab work and literature search under the supervision of an instructor on a chemical research project. Involves lab experimentation as well as a written report on a project from any area of chemistry. Open to students having 1) a minimum of 20 hours of chemistry, 2) junior or senior standing, 3) the ability to undertake independent work and 4) permission of the instructor. Enrollment must be approved by the adviser and the department head

Chem 498 (F, S) 1-3 hrs. cr. Seminar

For upper division chemistry majors. Content varies, depending on the student's needs, from library research to special topics in chemistry. Prerequisite: Senior standing or permission of department head.

Chem 499 (F, S) 1-3 hrs. cr. Independent Study

Independent investigation techniques; includes a paper on a selected topic with both a critical survey of the chemical literature and results from advanced lab experimentation. Open to students having (1) minimum of 25 hrs. of chemistry, (2) ability to undertake independent work and (3) permission of instructor. Enrollment must be approved by adviser, department head and school dean.

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Communications (Comm)

Comm 100 (F. S)

3 hrs. cr.

Oral Communication

Principles of oral communication, including speaking and listening competencies and skills. Primary emphasis is on presenting various types of speeches and improving listening ability. Research, organization, reasoning, language and evaluation skill development are included. Three contact hrs. per week. (Required of all degree candidates.)

Comm 101 (F, S) Introduction to Human Communication

An introductory survey of the field of communication, exploring theoretical and research foundations. Included are discussions of language and verbal interaction and nonverbal communication. Contexts of communication are covered: interpersonal, group and organizational, public, intercultural and mass. Also covered will be career opportunities for the student who chooses a major or minor in communication.

Comm 111 (F, S)

3 hrs. cr.

Newswriting

Development of techniques in reporting and writing for a newspaper. Work on the College newspaper, The Chart, is required.

(Per Sem.) 1 hr. cr. Comm 121 (F, S)

Forensics Workshop

A practicum in forensics, including research, organization and presentation of the current debate proposition along with development and presentation of individual events. May be repeated for a maximum of 4 hrs. of credit.

Comm 130 (S)

3 hrs. cr.

Introduction to Broadcasting

The role of the electronic media in our society and an introduction to the varied aspects and functions of the broadcasting professions. Laboratory experience in radio and television.

Comm 131 (F, S)

3 hrs. cr.

Voice and Diction

Techniques for improving the speaking voice. Attention to voice production, phonetics, pronunciation and vocal expressiveness.

Comm 150 (F, S)

3 hrs. cr.

Introduction to Desktop Publishing

Desktop publishing is a significant technology in the working environment for the journalist or public relations practitioner. Designed for the student with little or no familiarity with computers. A lecture/hands-on laboratory course intended to equip the student with basic skills in desktop publishing. Enrollment is limited to communications majors. Does not meet computer literacy requirements.

Comm 200 (F. S)

3 hrs. cr.

Radio Production Development of announcing skills. Exercises in microphone techniques, introduction to control board, basic production techniques and combo operation of radio station, introduction to programming and formats. Work on air at KXMS. Projects are taped for analysis and critique. Two hrs. lecture, 2 hrs. lab per week.

Comm 201 (F, S)

3 hrs. cr.

Television Production

Intensive practice in preparation and production of television programs. Camera techniques, floor setups and direction of crews and talent. Interviewing techniques. Development of varied on-the-air skills. Two hrs. lectures, 2 hrs. lab per

Comm 203 (S)

3 hrs. cr.

Business and Professional Speech

A performance-oriented course designed to foster ability in and understanding of the role of speech communication in the context of business organizations and the professions. Interviewing, group discussion and individual speaking formats are included.

Comm 205 (S, Even)

3 hrs. cr.

Listening

A study of the role listening plays in our daily lives. Emphasis on the listening process, types of listening skills, response strategies and what our listening behaviors communicate to others. Intensive practice for those who recognize the importance of genuine listening and wish to acquire proficient listening abilities.

Comm 215 (F, S)

3 hrs. cr.

Interpersonal Communication

(Writing Intensive)

Person-to-person communication with emphasis on dyadic and group communication. Lecture, reading and discussion with class experiments designed to illustrate interpersonal communication problems. Prerequisite: Comm 100.

(Per Sem.) 1 hr. cr. Comm 220 (F, S) **Practicum in Communications**

Laboratory experience on the staff of the College newspaper, yearbook, or broadcast media. Students will participate fully in the work of the media, working under the supervision of faculty members. A minimum of 5 hrs. per week is required. One hr. of credit each term for a maximum of three terms. Prerequisite: for The Chartor Crossroads, Comm 111; for KXMS, Comm 200; for TV, Comm

Comm 231 (F)

3 hrs. cr.

Feature Writing

Investigative reports and special articles for newspapers and magazines. Work on the College newspaper is required. Prerequisite: Comm 111 or consent of instructor.

Comm 233 (S)

Copyediting

Principles of copy reading and editing, design of newspaper. Use of desktop publishing skills. Students work in positions of major responsibilities on the College newspaper, The Chart. Prerequisite: Comm 111 and Comm 150 or equivalent experience.

Comm 298 (Demand)

1-8 hrs. cr

Selected Topics in Communications

Topics not normally included in another course. Prerequisites are determined by the department and stipulated in syllabus.

Comm 300 (F)

3 hrs. cr.

Organizational Communication

The interface between communication theory and organizational structure. Emphasis upon communication problems in organizations, strategies for overcoming such problems and the design of effective communication systems in organizational settings. Prerequisites: Comm 101 and

Comm 301 (S, Even)

3 hrs. cr.

Broadcast and Cable Management

Broadcast station administration, market analysis, policy determination, station organization, sales, programming, network relationships, community involvement and FCC responsibilities. Prerequisite: Comm 200 and 201 or consent of instructor.

Comm 302 (Demand)

3 hrs. cr.

Photocommunications

Theory and practice of communication through the medium of photography. Students work on the photography staffs of college publications and deal with the application of photography to the mass media. Prerequisite: Comm 111 and a knowledge of photographic techniques, including developing and printing.

Comm 304 (F)

3 hrs. cr.

Small Group Communication

(Writing Intensive)

Small group context of interpersonal communication emphasizing group behavior and human relations. Specific units include group problem solving, decision making and leadership style. Prerequisite: Comm 100.

Comm 305 (F, S)

3 hrs. cr.

Intercultural Communication

(Writing Intensive)

Analysis of variables influencing communication among peoples from different cultures. Emphasis on developing interpersonal skills needed in multicultural encounters. Prerequisite: Comm 100. (Meets Core Curriculum requirements in Area 5, International Cultural Studies.)

Comm 306 (S) Persuasion

3 hrs. cr.

A theoretical examination of the principles of influencing individuals and groups, a history of rhetoric and modern application of these principles to various areas of social interaction. Prerequisite: Comm 100.

Comm 307 (F)

Professional Interviewing

Designed to prepare students for professional fields which require information-seeking and gathering, decision-making, interaction skills and self-expression. The student will participate in a variety of simulated and actual interviewing situations as both an interviewer and interviewed.

Prerequisite: Comm 100.

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Comm 308 (S, Odd) **Gender Communication**

3 hrs. cr.

The pragmatics of gender-related communication refers to the study of the embedded contexts of male-female symbolic interaction. This introduction to the field of gender communication will look at interpersonal, organizational and cultural contexts. Prerequisite: Comm 100.

Comm 310 (S)

3 hrs. cr.

Communication Law

Statutes, administrative regulations and court decisions affecting freedom of information, censorship, libel, privacy, contempt of court, obscenity. legal access, copyright, advertising and broadcasting. Rights, privileges and obligations of the

Comm 311 (S)

3 hrs. cr.

Introduction to Public Relations

Nature and scope of public relations and its relationship to interpersonal and interdisciplinary conduct. Basic elements of public relations including planning, special events, speeches, news releases, annual reports, financial reporting, visual and electronic media techniques.

Comm 312 (Demand)

3 hrs. cr.

Scholastic Publications

Editorial and production practices of school newspapers and yearbooks. The role of the publications adviser; advanced publication work on the College newspaper or yearbook. Prerequisite: 12 hrs. in media courses.

Comm 315 (F, Even)

3 hrs. cr.

Argumentation and Debate

The theory of the modern forms of evidence. evaluations, arguments, methods of refutation and ethical relationships of these methods in a free society. (Meets certification requirements for secondary education.) Prerequisite: Comm 100.

Comm 320 (S)

3 hrs. cr.

Advanced Television Production

Focuses on the elements of producing and directing television programs. Students spend most of the laboratory time actually producing programs for telecasting on cable, public television, or the College's own television station. One hr. lecture, 4 hrs. lab each week. Prerequisite: Comm 201.

Comm 321 (F, S)

(Per Sem.) 1 hr. cr.

Forensics Workshop

Advanced practicum in the area of forensics, including research, organization and presentation of the current debate proposition along with development and presentation of individual events. May be repeated for a maximum of 4 hrs. of credit. Prerequisite: Junior or senior standing and Comm 121.

Comm 325 (F)

3 hrs. cr.

Broadcast News Reporting

(Writing Intensive)

Experience in writing and reporting news for broadcast. Interview assignments, wire rewriting, actualities/voice production and newstape editing. Laboratory experience with campus broadcast media. Prerequisite: Comm 111.

Comm 330 (F, S)

1 hr. cr.

Advanced Communications Practicum

Intensive laboratory experience on the staff of the College newspaper, yearbook, broadcast media or in the Communications Resource Center. Students will work for a minimum of 5 hrs. per week in positions of major responsibilities. May be repeated for a maximum of 6 hrs. of credit. Prerequisites: Junior or senior standing; media courses to prepare student adequately for work expected; Comm 220 or permission.

Comm 340 (S, Odd)

3 hrs. cr.

Research in Communications

An introduction to research methods in communications. Discussion of these methods as they apply to various communication contexts. This course offers an exploration of the nature of research, types of research methodologies and evaluation of research. Prerequisites: Junior or senior standing and Comm 101.

Comm 345 (F, S, Summer) Internship in Communications

1-8 hrs. cr.

Off-campus work experience in areas related to professional goals of students. For advanced majors in communications. Students must be approved for the program prior to enrolling. For some specific internships available, application must be made during the first half of one semester for the following semester. These internships are highly competitive and are awarded only to exceptional students. In all internships students work under joint supervision of a faculty member and a representative of the organization provid-

ing the intern experience. A student may repeat the course to a maximum of 8 hrs. of credit. Prerequisites: Communications major with a minimum of 85 semester hrs.; approval of department head prior to enrolling. Some internships may

Comm 350 (Demand)

have other specific prerequisites.

3 hrs. cr.

Sports Writing

The fundamental principles of reporting and interpreting sports, improving writing and editing skills for game coverage and feature stories and further developing and refining those skills necessary for success in the field. Prerequisite: Comm 111.

Comm 400 (S, Even)

3 hrs. cr.

Advanced Organizational Communication The application of communication theory within the organizational structure is the thrust of the course. Particular attention is focused on analysis and diagnostic capabilities. Communication training and development within an organizational setting is emphasized. Prerequisite: Comm

Comm 401 (S)

3 hrs. cr.

Nonverbal Communication

The thrust of the course will be to study types and effects of various nonverbal communication behaviors and to develop competencies and skills in applying the study to selected perspectives. Original research as well as published research will be emphasized. Prerequisite: Comm 100.

Comm 402 (S. Odd)

3 hrs. cr.

Broadcast Programming

An analysis of the programming principles and techniques used within the broadcast and cable professions. Practices of networks, affiliated stations, independent stations and superstations are compared and contrasted. Prerequisite: Comm

Comm 411 (S, Odd)

3 hrs. cr.

Political and Social Communication

Critical analysis of speakers and speeches selected to present the characteristic ideas of leading social and political developments in national and international affairs; includes lecture, reading and discussion. Prerequisite: Comm 100 and junior or senior standing.

Comm 420 (F)

3 hrs. cr.

Mass Communications Theory

Explores the various theories which have been applied to understanding the effects of the mass media. Students will learn the various paradigms which have been applied in attempting to predict media performance, reliability and impact. Prerequisite: Comm 100 plus 3 hrs. of communication courses.

Comm 450 (S, Even)

3 hrs. cr.

Community Journalism

Examining the nature and role of community journalism in an urbanized society is the thrust of the study. It relies heavily on the expertise of community journalism practitioners as resources of information and research. Experience with small daily and weekly newspapers will be the foundation for developing skills in community journalism. Prerequisite: Comm 111.

Comm 490 (S)

3 hrs. cr.

Professional Communication Skills

(Writing Intensive)

Writing, speech preparation and the public presentation of ideas. Both written and oral presentations are required and considerable emphasis will be placed on the effective use of language. Prerequisites: Comm 100 and Eng 102.

Comm 492 (S)

3 hrs. cr.

Communication Issues

Required of all communications majors. Synthesizes information obtained from previous coursework. Students are presented with current issues of concern from communications fields and are asked to present possible scenarios for their resolution. Prerequisite: Senior standing. plus 15 hrs. in communications.

Comm 493 (S, Even)

3 hrs. cr.

International Communication

Comparative analysis of media systems throughout the world, international broadcasting, freedom of the press, media imperialism and the New World Information Order.

Comm 498 (Demand)

3 hrs. cr.

Seminar in Speech Communication

For upper-division students. Topics to be announced each time the course is offered.

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1-3 hrs. cr. Comm 498 (Demand) **Seminar in Mass Communications**

For upper-division students. Topics to be announced each time the course is offered.

1-3 hrs. cr. **Comm 499**

Independent Study in Speech Communication An independent course structured by the adviser with approval of the department head and school dean. Prerequisite: Must have completed 90 hrs. with a cumulative GPA of 3.0 and have completed 15 hrs. of communications. Projects must be approved by adviser, department head and school dean prior to enrollment.

1-3 hrs. cr. Comm 499 **Independent Study in Mass Communications** Individually directed study in selected areas for advanced majors in mass communications. Prerequisite: Must have completed 90 hrs. with a cumulative GPA of 3.0 and have completed 15 hrs. of communications. Projects must be approved by the adviser, department head and school dean prior to enrollment.

English (Eng)

Eng 080 3 hrs. cr. **Basic Composition**

Offered through the Learning Center, for students whose placement scores indicate they are not prepared to enter English 101. Students will write at least six major papers with special attention given to mechanics, grammar, syntax, paragraphing and organization. Students must pass English 80 before registering for English

3 hrs. cr. Eng 101 Freshman Composition I (Writing Intensive) Principles of effective writing based upon expository models. Successful completion of the course permits the student to enroll in English 102. Students demonstrating exceptional ability as indicated by placement scores may be permitted to substitute English 111. (Meets Core Curriculum requirements.)

3 hrs. cr. Freshman Composition II (Writing Intensive) Continued development of writing skills. Initiation, development and completion of a research paper. Prerequisite: English 101. (Meets Core Curriculum requirements.)

3 hrs. cr. **Advanced Freshman Composition**

(Writing Intensive)

For freshmen demonstrating exceptional proficiency on placement tests. With a grade of "C" or better in English 111, a student also automatically receives three hrs. credit for English 101, thereby satisfying the six hour composition requirement. However, students receiving a D in English 111 must take English 102.

Eng 150 Introduction to Literature

An examination of literary themes, techniques, and approaches reflected in the genres of fiction, poetry, and drama. (Meets Core Curriculum requirements.)

3 hrs. cr.

3 hrs. cr.

Eng 160 Introduction to Film Studies

An introduction to the study of film as a literary genre and art form. Two hrs. lecture, 2 hrs. lab.

3 hrs. cr. Eng 216 (S) (Writing Intensive) **Creative Writing** Writing of prose, poetry and drama. A study of the writer's roles and technical approaches to literature in order to develop creative writing skills. Prerequisite: English 101.

Eng 261 3 hrs. cr.

Masterpieces of World Literature

Selected literature through the Renaissance, excluding British and American literature. (Meets Core Curriculum requirements.)

3 hrs. cr. Eng 262 Masterpieces of World Literature

Selected literature from the Renaissance to the present, excluding British and American literature. (Meets Core Curriculum requirements.)

3 hrs. cr. Eng 271

English Literature

Survey of English literature from its beginnings through the eighteenth century. (Meets Core Curriculum requirements.)

3 hrs. cr. Eng 272

English Literature

Survey of English literature from the Romantic Movement to the present. (Meets Core Curriculum requirements.)

3 hrs. cr. Eng 281

American Literature

A survey of American literature from its beginning to the Civil War. (Meets Core Curriculum requirements.)

3 hrs. cr. Eng 282

American Literature

A survey of American literature from the Civil War to the present. (Meets Core Curriculum requirements.)

Eng 298 (Demand) 3 hrs. cr. **Explorations in Literature**

Studies in a variety of literary subjects. Topic

open.

3 hrs. cr. Eng 301 (F) Modern Grammar

Survey of the major descriptive approaches to English grammar, emphasizing generative transformational syntax. Also focuses on dialect, usage, and practical classroom applications

3 hrs. cr. Eng 305

The Short Story

An indepth study of the short story with representative writers from throughout the world. (Meets Core Curriculum requirements.)

3 hrs cr Eng 310 (F) (Writing Intensive) **Professional Writing** An advanced course focused on the technical writing demands of professional occupations. Prerequisite: 6 hrs. composition.

3 hrs. cr. Eng 313 (Writing Intensive) **Technical Writing** An advanced composition course focused on the practical demands of on-the-job writing. Designed primarily for upperlevel students preparing for careers in science, technology or social science. Prerequisite: Six hours of composition.

3 hrs. cr. Eng 315 (S) (Writing Intensive) Exposition The techniques of factual writing. Recommended for all students, especially those planning professional careers. Prerequisite: 6 hrs. composition.

3 hrs. cr. Eng 316 Creative Writing: Poetry (Writing Intensive) An advanced course in the writing of poetry, including analysis and emulation of professional models and workshop editing of original student writings. Prerequisite: English 216.

3 hrs. cr. Eng 317 Creative Writing: Fiction (Writing Intensive) An advanced course in the writing of fiction, including analysis and emulation of professional models and workshop editing of original student writings. Prerequisite: English 216

3 hrs. cr. Eng 319 (F) Composition for Teachers (Writing Intensive) For prospective teachers of English. A review of grammar, practice in writing, and the theory of teaching writing.

3 hrs. cr. Eng 325

Children's Literature

A reading, lecture and observation course for elementary education students, including evaluation of children's literature, its historical development, and its uses in the elementary school. Does not count toward an English major.

3 hrs. cr. Eng 330

Literature for Adolescents

An extensive reading course for English education students including evaluation of adolescent literature, some methodology for classroom use, and a major unit on minority literature.

3 hrs. cr.

Women's Literature

A study of the literary tradition of women authors writing in English.

3 hrs. cr. Eng 340

Black American Literature

Writings by Black Americans from the Colonial Period to the present.

3 hrs. cr. Eng 345

The American Novel

Representative works of authors such as Hawthorne, Melville, Twain, and Faulkner.

3 hrs. cr. Eng 350

Recent American Fiction

The major movements in American fiction since World War II.

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Eng 355 3 hrs. cr. **Arthurian Literature**

Emphasizes the origins and development of Arthurian legends in the Middle Ages: studies treatment of Arthurian literature in modern times. Works read in modern English translation.

Eng 360

Twentieth Century Drama

World drama from Shaw to the present. Emphasis on American and British dramatists.

Eng 370 3 hrs. cr. **Twentieth Century Poetry**

British and American poetry from Yeats to the present.

Eng 380 3 hrs. cr. The English Novel

Studies in the English novel from 1700 to the present, featuring representative works from authors such as Austen, Dickens, and Joyce.

Eng 385 **Continental Novel**

Representative works by European novelists of the nineteenth and twentieth centuries. Emphasis is on the major European novelists such as Tolstoy, Dostoevsky, and Kafka. (Meets Core Curriculum requirements in Area 5, International Cultural Studies.)

Eng 390 3 hrs. cr.

Comparative Epic

Intensive study of a range of Western and non-Western epic poetry and prose, with emphasis on literature from non-English speaking cultures.

Eng 391 3 hrs. cr. **Comparative Lyric Poetry**

Intensive study of a range of European and non-European lyric poetry in translation.

Eng 400 (S) 3 hrs. cr. History of the English Language

The ancestors of English and the effect of other languages, peoples, and cultures upon the development of English. Phonology, morphology, syntax, and usage of the language throughout its history.

3 hrs. cr. Eng 410 Medieval English Literature

Literature of England in the Anglo-Saxon and Middle English periods. Emphasis on the works of

3 hrs. cr. Eng 415 Renaissance Prose and Poetry

English poetry and prose from 1500 to 1660. Focus on major figures such as Sidney, Spenser, Donne, Marvell, and Milton.

Eng 420 3 hrs. cr.

English Drama to 1800 English drama from its beginnings to 1800 (excluding Shakespeare). Focus on the period of great English drama of the Renaissance and on Restoration comedy. Includes major figures such as Marlowe, Jonson, Webster, and Congreve.

Eng 425 3 hrs. cr. **Restoration and Eighteenth Century**

English Literature The rise of Neoclassicism, the Enlightenment,

and the decline of Neoclassicism in literature from 1660-1798, from Dryden to Gray.

Eng 430 3 hrs. cr.

The Romantic Period

English literature from 1798 to 1832 treating representative authors from Wordsworth through

Eng 435 3 hrs. cr. The Victorian Period

English literature from 1832 to 1901 examining representative authors such as Tennyson, Carlyle, Browning, and Dickens.

3 hrs. cr. Eng 450 (F) Shakespeare

Selected comedies, histories, tragedies, romances, and poems.

3 hrs. cr. **English Literature: Major Figures**

An intensive study of a major author or authors whose contribution to English literature is of significant worth. May be repeated with variation of author.

3 hrs. cr. **American Literature: Major Figures**

An intensive study of a major author or authors whose contribution to American literature is of significant worth. May be repeated with variation of author.

Eng 480 3 hrs. cr.

Literary Criticism

Major schools of criticism and the major representatives of each school.

3 hrs. cr. Eng 498

Seminar in Literature For advanced English majors or by permission of department head. Topic open.

1-3 hrs. cr. Eng 499

Independent Study Individually directed study in selected areas for advanced English majors. Prerequisite: a GPA of 3.0 in English. Enrollment must be approved by adviser, department head and school dean.

Foreign Languages and Literatures

Arabic (Ara)

Ara 101 (Demand) 3 hrs. cr. Beginning Arabic I

Fundamental elements of modern standard Arabic. Basic sentence patterns and grammar.

Ara 102 (Demand)

3 hrs. cr.

Beginning Arabic II

A continuation of 101. Further introduction to the basic skills of listening to and speaking the Arabic language. Prerequisite: Ara 101.

Ara 203 (Demand)

3 hrs. cr.

Intermediate Arabic I

Systematic development of communicative skills in Arabic. Development of vocabulary. Drill in aural/oral skills. Prerequisite: Ara 102.

Ara 204 (Demand)

Intermediate Arabic II

Continuation of 203. Further systematic development of communicative skills in Arabic. Development of vocabulary. Drill in aural/oral skills. Prerequisite: Arabic 203.

Chinese (Chi)

Chi 101 (Demand)

3 hrs. cr.

Beginning Chinese I (Mandarin)

Pronunciation, grammar, elementary conversation, development of basic communicative skills.

Chi 102 (Demand) 3 hrs. cr.

Beginning Chinese II (Mandarin)

A continuation of 101. Pronunciation, grammar, elementary conversation. Prerequisite: Chi 101.

Chi 203 (Demand) 3 hrs. cr.

Intermediate Chinese I (Mandarin)

Systematic development of communicative skills in Chinese. Development of vocabulary. Drill in aural/oral skills. Prerequisite: Chi 102.

Chi 204 (Demand) 3 hrs. cr.

Intermediate Chinese II (Mandarin)

A continuation of Chinese 203. Further systematic development of communicative skills in Chinese. Development of vocabulary. Drill in aural/oral skills. Prerequisite: Chi 203.

French (Fren)

Fren 101 (F, S)

3 hrs. cr.

Beginning French I

An introduction to the basic skills of understanding, speaking, reading and writing in French and to the study of the French-speaking cultures.

Fren 102 (F, S)

3 hrs. cr.

Beginning French II

A continuation of Fren 101. Emphasis on the basic skills of understanding, speaking, reading and writing in French and to the study of the French speaking cultures. Prerequisite: Proficiency level of NOVICE or Fren 101.

Fren 203 (F, S)

3 hrs. cr.

Intermediate French I

A continuation of Fren 102. Emphasis on the basic skills of understanding, speaking, reading and writing in French and to the study of the French speaking cultures at the intermediate level. Prerequisite: Proficiency level of NOVICE PLUS, or Fren 102.

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Fren 204 (F, S)

3 hrs. cr.

Intermediate French II

A continuation of Fren 203. Emphasis on the basic skills of understanding, speaking, reading and writing in French and to the study of the French speaking cultures at the intermediate plus level. Prerequisite: Proficiency level of INTER-MEDIATE or Fren 203.

Fren 298 (Demand)

1-8 hrs. cr.

Selected Topics in French

Topics not normally included in another course. Prerequisites are determined by the department and stipulated in the syllabus for each specific

Fren 301 (F, S)

3 hrs. cr.

Readings & Conversation

Continued development of the four basic lanquage skills in the target language through readings and conversation. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Proficiency level of INTERMEDIATE PLUS or Fren 204.

Fren 302 (F, S)

3 hrs. cr.

Readings in Literature & Culture

Continued development of the four basic lanquage skills in the target language through readings and conversation in culture and literature. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Proficiency level of ADVANCED or Fren 301.

Fren 303 (Demand)

French Composition

Practice in writing French accompanied by a study of grammar and syntax. Prerequisite: Proficiency level of INTERMEDIATE PLUS, or Fren

Fren 304 (Demand)

3 hrs. cr.

Advanced French Composition

Practice in writing French compositions. Thorough study of grammar, syntax and idiomatic expressions. Prerequisite: Proficiency level of ADVANCED, or Fren 303.

Fren 322 (Demand)

3 hrs. cr.

Survey of French Literature

French literature of the eighteenth, nineteenth and twentieth centuries. Prerequisite: Proficiency level of ADVANCED.

Fren 498 (Demand)

1-8 hrs. cr.

Seminar in French

Advanced topics not normally included in regular offerings. Prerequisites are determined by the department and stipulated in the syllabus for each specific offering.

Fren 499 (Demand)

1-3 hrs. cr.

Independent Study

Individual directed study in French. Prerequisite: Permission of instructor. The proposed study must be approved by instructor, adviser, department head and dean in advance of enrollment.

German (Ger)

Ger 101 (F. S)

3 hrs. cr.

Beginning German I

An introduction to the basic skills of understanding, speaking, reading and writing in German and to the study of the German speaking cultures.

Ger 102 (F. S)

Beginning German II

A continuation of Ger 101. Emphasis on the skills of understanding, speaking and writing in German and to the study of the German speaking cultures. Prerequisite: Proficiency level of NOV-ICE, or Ger 101.

Ger 203 (F, S)

3 hrs. cr.

Intermediate German I

A continuation of Ger 102. Emphasis on the basic skills of understanding, speaking, reading and writing in German and to the study of the German speaking cultures at the intermediate level. Prerequisite: Proficiency level of NOVICE PLUS, or Ger 102.

Ger 204 (F, S) Intermediate German II 3 hrs. cr.

A continuation of Ger 203. Emphasis on the basic skills of understanding, speaking, reading and writing in German and to the study of the German speaking cultures at the intermediate plus level. Prerequisite: Proficiency level of INTERMEDI-

ATE, or Ger 203.

Ger 298 (Demand)

1-8 hrs. cr.

3 hrs. cr.

Selected Topics in German

Topics not normally included in another course. Prerequisites are determined by the department and stipulated in the syllabus for each specific offering.

Ger 301 (F, S)

Readings & Conversation

Continued development of the four basic language skills in the target language through readings and conversation. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Proficiency level of INTERMEDIATE PLUS, or Ger 204.

3 hrs. cr.

Readings in Literature and Culture

Continued development of the four basic language skills in the target language through readings and conversation in culture and literature. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Proficiency level of ADVANCED or Ger 301.

Ger 498 (Demand)

1-8 hrs. cr.

Seminar in German

Advanced topics not normally included in regular offerings. Prerequisites are determined by the department and stipulated in the syllabus for each specific offering.

Ger 499 (Demand)

1-3 hrs. cr.

Independent Study

Individually directed study in German. Prerequisite: Permission of instructor. The proposed study must be approved by instructor, adviser, department head and dean in advance of enrollment.

Japanese (Jpn)

Jpn 101 (Demand)

3 hrs. cr.

Beginning Japanese I

Pronunciation, conversation and grammar. Aural/oral drill.

Jpn 102 (Demand)

Beginning Japanese II

Continuation of Japanese 101. Additional work in pronunciation, conversation and grammar. Aural/ oral drill. Prerequisite: Jpn 101.

Jpn 203 (Demand)

3 hrs. cr.

Intermediate Japanese I

Grammar review and continued aural/oral practice. Prerequisite: Jpn 102.

Jpn 204 (Demand)

3 hrs. cr.

Intermediate Japanese II

Continuation of Japanese 203 with additional grammar review and continued aural/oral practice. Prerequisite: Jpn 203.

Russian (Rus)

Rus 101 (F, S)

3 hrs. cr.

Beginning Russian I

Emphasis on the basic communicative skills of listening, speaking, reading and writing the Russian language. Structural grammar and basic vocabulary.

Rus 102 (F, S)

3 hrs. cr.

Beginning Russian II

A continuation of 101. Further introduction to the basic skills of listening to, speaking, reading and writing the Russian language. Prerequisite: Rus 101 and proficiency level of NOVICE.

Rus 203 (F, S)

3 hrs. cr.

Intermediate Russian I

Systematic development of communicative skills in Russian. Development of vocabulary through reading, writing. Drill in aural/oral skills. Prerequisite: Rus 102 and a proficiency level of NOVICE PLUS.

Rus 204 (F, S)

3 hrs. cr.

Intermediate Russian II

A continuation of Rus 203. Further systematic development of communicative skills in Russian. Development of vocabulary through reading, writing. Drill in aural/oral skills. Prerequisite: Rus 203 and proficiency level of INTERMEDIATE.

Spanish (Span)

Span 101 (F, S) Beginning Spanish I

An introduction to the basic skills of understanding, speaking, reading and writing in Spanish and to the study of the Spanish speaking cultures.

Span 102 (F, S)

Beginning Spanish II

3 hrs. cr.

A continuation of Spanish 101. Emphasis on the basic skills of understanding, speaking, reading and writing in Spanish and on the study of the Spanish speaking cultures. Prerequisite: Proficiency level of NOVICE, or Span 101.

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Span 203 (F, S)

3 hrs. cr.

Intermediate Spanish I

A continuation of Span 102. Emphasis on the basic skills of understanding, speaking, reading and writing in Spanish and on the study of the Spanish speaking cultures at the intermediate level. Prerequisite: Proficiency level of NOVICE PLUS, or Span 102.

Span 204 (F, S)

3 hrs. cr.

Intermediate Spanish II

A continuation of Span 203. Emphasis on the basic skills of understanding, speaking, reading and writing in Spanish and on the study of the Spanish speaking cultures at the intermediate plus level. Prerequisite: Proficiency level of INTERMEDIATE, or Span 203.

Span 298 (Demand)

3 hrs. cr.

Selected Topics in Spanish

Topics not normally included in another course. Prerequisites are determined by the department and stipulated syllabus.

Span 301 (F, S)

3 hrs. cr.

Readings and Conversation

Continued development of the four basic language skills in the target language through readings and conversation. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Proficiency level of INTERMEDIATE PLUS, or Span 204.

Span 302 (F, S)

Readings in Hispanic Literature and Culture
Continued development of the four basic language skills in the target language through readings and conversation in culture and literature. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Proficiency level of ADVANCED, or Span

Span 303 (F, Odd)

2 hrs. cr.

Spanish Syntax I

Spanish grammar review with emphasis on the Spanish verb system. Prerequisite: Proficiency level of ADVANCED, or Span 301.

Span 304 (F, Even)

2 hrs. cr.

Spanish Phonology

Advanced study of the Spanish sound system: Phonemic composition, historical antecedents, contemporary convention and variation. Study includes: contrasting inventories, syllabication, descriptive analysis, intonation as signal, accentual norms, word groups and consideration of dynamics and dialectology. Prerequisite: Proficiency level of ADVANCED, or Span 301.

Span 320 (S, Even)

3 hrs. cr.

Spanish Syntax II and Composition

Advanced study of the three major components of Spanish grammar, with emphasis on: verbal moods, lexical items, the effects of stress, idiomatic usage, orthography, the principles of translation and composition. Prerequisite: Proficiency level of ADVANCED, or Span 301.

Span 321 (F, Even)

3 hrs. cr.

Peninsular Literature from El Cid to Calderon Spain's literary history and important representative works and writings from El Cid to Calderon. Taught in Spanish. Prerequisites: Proficiency level of ADVANCED, or Span 301.

Span 322 (S, Odd)

3 hrs. cr.

Peninsular Literature from the Romantics

to the Present

Spanish literature since 1830 with emphasis on Romanticism, Realism, the generation of 1898, contemporary poetry and novel. Taught in Spanish. Prerequisites: Proficiency level of ADVANCED, or Span 301.

Span 333 (F, Odd)

3 hrs. cr.

Survey of Spanish-American Literature I

Survey of Spanish American literature from its beginnings to Marti. Taught in Spanish. Prerequisites: Proficiency level of ADVANCED and Span 302 or 320.

Span 334 (S, Even)

3 hrs. cr

Survey of Spanish-American Literature II Survey of Spanish American literature from Marti to present. Taught in Spanish. Prerequisites: Proficiency level of ADVANCED and Span 302 or

Span 400 (F, Even)

3 hrs. cr.

20th Century Spanish Drama

Select works by Spain's most prominent, contemporary playwrights; socio-economic contexts, political ideologies and diverse life styles; dramatic literature and its impact on the cultural life of the nation. Prerequisites: A proficiency level of ADVANCED or Span 301.

Span 498 (Demand)

1-3 hrs. cr.

Seminar in Spanish Language/Literature
For upper-division students. Topics to be announced each time the course is offered.
Prerequisite: Proficiency level of ADVANCED and at least 15 hrs. of upper-division Spanish courses.

Span 499 (F, S)

1-3 hrs. cr.

Independent Study

Individually directed study in selected areas for advanced majors in Spanish. Prerequisite: Must have completed 90 hrs. with a cumulative GPA of 3.0 and must have 15 hrs. in Spanish. The proposed study must be approved by instructor, adviser, department head and school dean prior to enrollment.

Other Languages

298 (Demand)

1-5 hrs. cr.

Special Topics in Foreign Languages

Languages not currently a part of the curriculum may be offered on appropriate demand, subject to the availability of faculty. For each offering, a course in a specific target language will be structured with the objective of developing the speaking, understanding, reading and writing skills of the student in the target language. Each offering will have a syllabus stating specific requirements of the course as well as prerequisites.

498 (Demand)

1-5 hrs. cr.

Advanced Topics in Foreign Languages

Advanced studies in foreign languages and literatures not currently part of the curriculum may be offered on appropriate demand, subject to the availability of faculty. For each offering, a course in a specific language will be structured with the objective of developing further the speaking, understanding, reading and writing skills of the student in the target language, as well as developing a further awareness of the literature of the specific language. Each offering will have a syllabus stipulating specific requirements of the course as well as prerequisites.

Geography (Geog)

Geog 211 (F, S)

3 hrs. cr.

Regions and Nations

Survey of the peoples of the earth and how their activities are influenced by climate, topography and natural resources.

Geog 298 (Demand)

3 hrs. cr.

Topics in Geography

Special geography topics of current interest. Subjects and instructors are changed each semester. Students are encouraged to submit areas of interest to the social science department.

Geog 311 (Demand)
Political Geography

3 hrs. cr.

Geographic factors which have influenced international relations and the policies of nations as political units. Emphasis on geopolitics, religion, racial and ethnic groupings and other factors which contribute to unity or disunity.

Geog 322 (Demand)

3 hrs. cr.

Economic Geography

World commodities and the geographic factors which affect their production and make them significant to the world economy.

Geog 412 (Demand)

3 hrs. cr.

Geography and Culture of Latin America

Cultural and physical regions and natural resources of South America, Latin America, Central America and the Caribbean Islands. Special emphasis on current problems and relations with the United States.

Geog 422 (Demand)

3 hrs. cr

Geography of the United States and Canada Geographic analysis of the United States and Canada with emphasis on regional variations of social, economic and physical phenomena.

Geog 498 (Demand)

1-2-3 hrs. cr.

Seminar in Geography

Study and analysis of selected topics in regional, urban-economic, cultural or physical geography.

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1-2-3 hrs. cr.

Independent Study

For students who wish to do an indepth study of some specialized topic or who wish to pursue a topic not considered in the department's course offerings. The individualized project will be directed by an instructor/adviser from the geography

Geology (Geol)

Geol 110 (S, Even)

5 hrs. cr.

Introduction to Geology

Materials of the earth, structures and geologic features of the surface in relation to the processes and forces producing them. Laboratory study of minerals and rocks and topographic and geologic maps. Additional one-day field trips may be reguired. Three lectures, two 2-hr. labs per week. Prerequisite: Phys 100.

faculty in consultation with the student.

Geol 180 (Demand)

3 hrs. cr.

Introduction to Meteorology

Fundamentals of the circulation of the atmosphere, sequence of weather events and climate. Includes interpretation of weather maps and climatic data. Three lectures per week. Prerequisite: Physics 100 or equivalent (does not count toward a physics major). Cross listed as Physics 180.

Geol 300 (S, Odd)

4 hrs. cr.

Environmental Geology

An introduction to man's relationship to the earth's environment. The limitations of natural resources and future projections are considered along with man's demands upon the environment. Oil spills, surface mining, waste disposal, ground water and other problems of a geologic nature are reviewed. Natural environmental hazards, such as volcanoes, earthquakes, subsidence, mass movements and floods are examined. Prerequisite: Phys 100.

Geol 498 (Demand) Studies in Geology 1-3 hrs. cr.

Seminar for upper division students only. Meets regularly a minimum number of hours each week equal to the number of credit hrs. Specialized instruction in some discipline of geology not normally covered in other courses. Prerequisite: Junior standing, Geol 110 and a minimum GPA of 2.5 in 16 hrs. of science. Permission of instructor required.

Geol 499 (Demand)

1-3 hrs. cr.

Problems in Geology Individual work under the supervision of a staff

member with credit and hours to be arranged. Problems may be undertaken in any field of geology with adequate preparation and the consent of the supervising instructor. Prerequisite: Minimum GPA of 3.0 in 20 hrs. of science, Geol 110 and a proven interest in geology.

History (Hist)

U.S. History

Hist 110 (F. S)

3 hrs. cr.

United States History 1492-1877

Survey of the United States from the era of discovery through reconstruction. Meets the Core Curriculum requirement for all majors. Educ 010 or a satisfactory score on the ACT Admissions Test is a prerequisite or corequisite to this course.

Hist 120 (F, S)

3 hrs. cr.

United States History 1877 to Present

Survey of the economic, social and political development of the United States from 1877 to the present. Meets the Core Curriculum requirement for all majors. A student cannot have credit for both Hist 120 and Hist 320. Educ 010 or a satisfactory score on the ACT Admissions Test is a prerequisite or corequisite to this course.

Hist 298 (Demand) **Topics in History**

Special historical topics are examined. Students are encouraged to submit areas of personal interest to guide in the selection of the topics.

Hist 305 (F)

3 hrs. cr.

Introduction to Public History

Public history serves the public through training and education of social science students in policy analysis, information gathering and dissemination, preservation, organizational management and cultural resources management. This introduction to the applied historical profession features a direct participant approach.

Hist 310 (Demand)

United States Social and Intellectual History Ideas, values and institutions that have nurtured and influenced the United States during the great industrial expansion, and emergence as a technology leader to the dilemmas of the 1970's and 1980's. Prerequisite: Three hrs. of history or consent of instructor.

Hist 315 (F, Even)

Economic History of the United States

Development of the American economy and its related institutions from the early national period to the present.

Hist 320 (Demand) **United States History 1877 to Present**

3 hrs. cr.

Survey of the United States from Reconstruction to the present. Meets the Core Curriculum requirement for all majors. A student cannot have credit for both Hist 120 and Hist 320. Prerequi-

site: Hist 110.

Hist 325 (F. Odd)

3 hrs. cr.

The American Frontier The westward expansion of the United States and its effects upon the social, political and economic institutions until the close of the frontier in 1890

Hist 330 (Demand)

3 hrs. cr.

History of the American Indian

Social, political, diplomatic, military and legal history of the native American society.

Hist 335 (F, Even)

3 hrs. cr.

Diplomatic History of the United States

Diplomatic relations of the United States and the related development of its foreign policy from 1775 to 1900.

Hist 340 (S. Odd)

United States Twentieth Century Diplomacy An investigation of United States' diplomacy in the present-day world. Emphasizes the role of the United States in world affairs.

Hist 343 (F)

3 hrs. cr.

Cold War American

Diplomacy, 1945 to Present An investigation of United States diplomacy and the present-day world. Emphasizes the role of the United States in world affairs.

Hist 345 (Demand)

3 hrs. cr.

Age of Jefferson and Jackson

Early political development in the United States. Evolution of the presidency over the first years of the new government, the triumph of Jeffersonian ideas, social trends and the rise of nationalism.

Hist 350 (S)

Civil War and Reconstruction

Causes of the Civil War, slavery and reform movements before the Civil War. Traces the development of reconstruction and political developments of the era.

Hist 355 (F, Even) The South

Social, economic, political and intellectual history of the Southern United States concentrating on tracing the distinctive characteristics of the section and attempting to discover how a consciousness of the region's separateness evolved.

Hist 360 (F, Odd)

History of Missouri

Missouri's growth from its early settlement to the present. Emphasis on political, economic, institutional and social development.

Hist 365 (Demand)

3 hrs. cr.

United States Colonial History

(Writing Intensive)

Colonial development from 1492 to 1781. Early colonization and British imperial policy are emphasized along with social, cultural, political and economic growth. Includes the Revolutionary War period.

Hist 370 (S)

3 hrs. cr.

Women in U.S. History

A survey of the historical experience of American women from the colonial period to the modern

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Hist 400 (S) 3 hrs. cr. United States Military Experience 1775 to Present

Major wars and other activities of the armed forces with emphasis on general military policy, strategy, tactics, organization and technology.

Hist 405 (Demand) The United States 1870-1920

United States at the turn of the century with the impact of the Industrial Revolution and its effect on social, political and economic institutions, the Progressive Movement and World War I.

Hist 410 (S, Even) 3 hrs. cr.

The United States Since 1920

Impact of politics, diplomacy and economic trends of the United States since 1920.

3-8 hrs. cr. Hist 496 Internship in History

Practical, professional training in archival skills and museum management in an area historical museum, archival institution or historic site, under the supervision of a faculty member and a professional from the participating institution. No more than three hours may be counted toward a major or minor. Prerequisite: Junior standing or above and departmental approval.

Hist 497 (F, S) 3 hrs. cr.

Seminar in Historical Research (Writing Intensive)

Topics pertaining to an era or historical problem of special interest to the instructor and students. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisite: Junior standing, Eng 102 and 6 hrs. upper-division history.

Hist 498 (F or S) 3 hrs. cr. Seminar in History

Advanced topics not covered in other history offerings. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisite: Junior or senior status; prior instructor consultation is advised.

Hist 499 (F, S) 1-2-3 hrs. cr.

Independent Study

Individualized project directed by the instructor/ adviser with approval of department head and school dean. Advanced standing in the majorfield and a minimum GPA of 3.0 are required.

European History

Hist 130 (F, S) 3 hrs. cr.

Western Civilization to 1660

Development and progress of western civilization from its origins through the Reformation. Changes in political organization, religion, artistic expression and daily life in the ancient Near East. Greece, Rome and Christian Europe. May be used to meet the Core Curriculum requirement in Area 5.

Hist 140 (F. S) **Western Civilization Since 1660**

Western societies from the Baroque Era to the retreat of European colonialism. Major emphasis on development of the nation-state, the impact of industrialization, changes in political and religious outlook, the impact of revolutions and two world wars. May be used to meet the Core Curriculum requirement in Area 5.

Hist 298 (Demand) **Topics in History**

3 hrs. cr.

3 hrs. cr.

Special historical topics. Students are encouraged to submit areas of personal interest to guide in the selection of the topics.

Hist 369 (Demand) 3 hrs. cr.

Nineteenth Century Europe

Major alterations of European society during this century. Emphasis on industrialization, imperialism. revolutions, rise of socialism/communism, middleclass liberal capitalism and individual national events.

Hist 370 (Demand) 3 hrs. cr. **Twentieth Century Europe**

A survey approach with emphasis on World Wars

I and II, the League of Nations, the United Nations, totalitarian systems and current European/ world problems.

Hist 375 (F, Even) 3 hrs. cr. **English History to 1660** (Writing Intensive) The peoples of England and their institutions from prehistoric settlement through the English civil wars. Major topics include the impact of Anglo-Saxon and Norman invasions, the changing roles of monarchy and of parliament, and life among various social classes.

Hist 380 (S, Odd) 3 hrs. cr. **English History Since 1660**

English people and institutions from the restoration of Charles II to the present. Concentration on the emergence of modern Parliamentary democracy, the industrial revolution, the Empire and current position of England in world affairs.

Hist 387 (F, Odd) History of Russia to 1796

History of Russia from pre-Tsarist times through the reign of Peter the Great. Emphasis on the land and the people, national characteristics and political institutions.

Hist 388 (S. Even) 3 hrs. cr. **History of Russia**

Since 1796 History of Russia since 1796 and the Soviet Union since the Bolshevik Revolution. Investigates the problems posed by Tsarist autocracy and serfdom, the origins and course of the Bolshevik Revolution, and Russian life under Communism.

Hist 390 (Demand) 3 hrs. cr. **History of Germany**

Social, political, military and economic history of Germany, with major concentration on the post 1519 period. Emphasis on the decline of the Medieval Empire, princely absolutism, national unification, Weimar Republic, Third Reich and post World War II.

Hist 420 (F, Odd)

3 hrs. cr.

3 hrs. cr.

Medieval History

Europe from the end of the Roman Empire to c. 1350. Emphasis on the emergence of the Papacy, manorialism and feudalism, the development of cities and an urban economy. and on intellectual life and artistic expression.

Hist 425 (S, Even)

The Renaissance and the Reformation 1350-1559

An overview of Europe from 1350 to 1559. Changes in thought and artistic expression, the divisions within Western Christendom, the emergence of national monarchies, and the impact of economic change on daily life.

Hist 435 (F, Even) 3 hrs. cr. The Era of the French Revolution and

An examination and analysis of events in France and their impact on Europe from 1789 to 1815. Interplay of ideas and people and the guest for a political settlement under a constitutional monarchy, republic and empire.

Hist 440 (S. Even) 3 hrs. cr.

European Intellectual History

Intellectual, cultural and social developments in Europe from the Italian Renaissance to the present. Examination of the rise of scientific thought, the Enlightenment, Romanticism, nationalism, political ideologies, social reforms and existentialism.

Hist 497 (F. S) 3 hrs. cr. Seminar in Historical Research

(Writing Intensive)

Topics pertaining to an era or historical problem of special interest the instructor and student. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisites: Junior standing, Eng 102 and 6 hrs. upper-division history.

Hist 498 (F or S) 3 hrs. cr. Seminar in History

Advanced topics not covered in other history offerings. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisite: Junior or senior status; prior instructor consultation is advised.

Hist 499 (F, S) 1-2-3 hrs. cr. **Independent Study**

Individualized project directed by the instructor/ adviser with approval of the department head and the school dean prior to enrollment. Advanced standing in the major field and a minimum GPA of 3.0 are required.

East Asian History

Hist 298 (Demand) **Topics in History**

3 hrs. cr.

Special historical topics. Students are encouraged to submit areas of personal interest to guide in the selection of the topics.

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Hist 415 (F, Even)

3 hrs. cr.

History of China

Survey of modern China. Emphasis on Chinese society, political developments and relations with the West in the nineteenth and twentieth centu-

Hist 430 (Demand)

Beginning Algebra 3 hrs. cr.

History of Japan

Japan's history from the middle of the nineteenth century to the present. Attention is given to Japan's contact with the West.

Hist 497 (F, S)

3 hrs. cr.

Seminar in Historical Research

(Writing Intensive)

Topics pertaining to an era or historical problem of special interest to the instructor and students. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisites: Junior standing, Eng 102 and 6 hrs. upper-division history.

Hist 498 (F or S)

3 hrs. cr.

Seminar in History

Advanced topics not covered in other history offerings. Emphasis is placed on the student's ability to research, assimilate and present new areas of knowledge. Prerequisite: Junior or senior status; prior instructor consultation is advised.

Hist 499 (F, S)

1-2-3 hrs. cr.

Independent Study

Individualized project directed by the instructor/ adviser prior to enrollment in the study. Advanced standing in the major field and a minimum GPA of 3.0 are required.

Global History

2 hrs. cr.

Problems in Recent Diplomatic History

Selected issues in recent global history from the perspective of a United Nations member state. Each student will investigate one issue, share the results of the research with the class and in a paper explain the historical background of the selected nation's position on the issue. Both the nation and topics studied will be determined by MSSC's participation in the Midwest Model United Nations and similar conferences. Although the course is a prerequisite for delegates to these conferences, enrollment is not limited to Model UN participants.

Hist 497 (F, S)

3 hrs. cr.

Seminar in Historical Research

(Writing Intensive)

Topics pertaining to an era or historical problem of special interest to the instructor and students. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisites: Junior standing, Eng 102 and 6 hrs. upper-division history.

Mathematics (Math)

Math 020 (F. S)

3 hrs. cr.

Operations on signed numbers, linear equations and inequalities, systems of linear equations. polynomial arithmetic. No credit towards baccalaureate degree.

Math 030 (F. S)

3 hrs. cr.

Intermediate Algebra

Factoring, operations on polynomials, radicals, quadratic equations. Prerequisite: One year of high school algebra and satisfactory score on the Mathematics Placement Test or Math 020 with a grade of "C". No credit towards baccalaureate degree.

Math 110 (F, S)

3 hrs. cr.

Introduction to College Mathematics

Basic college mathematics with an introduction to various areas of mathematics such as linear programming, set theory, probability and statistics and geometry. Satisfies the requirement in mathematics for the Core Curriculum. Prerequisite: One year of high school algebra and satisfactory score on the Mathematics Placement Test or Math 020 with a grade of "C".

Math 111 (F, S)

3 hrs. cr.

Math for Elementary Teachers I

The real number system and its subsystems, relations and functions, numeration systems. Prerequisite: One year of high school algebra and satisfactory score on the Mathematics Placement Test or Math 020 with a grade of "C". (Will not meet the Core Curriculum mathematics requirement for nonelementary education majors.)

Math 112 (Demand)

3 hrs. cr.

Trigonometry

Trigonometric and logarithmic functions, complex numbers, with applications. Prerequisite: Two units of high school algebra, one unit high school geometry and satisfactory score on the Mathematics Placement Test or Math 030 with grade of "C," or permission of instructor.

Math 120 (F, S)

3 hrs. cr.

Math for Elementary Teachers II

A continuation of Math 111. Sets of points, metric and non-metric geometry, probability. Recommended for prospective elementary teachers. Prerequisite: Math 111 or permission of instruc-

Math 130 (F, S)

3 hrs. cr.

College Algebra

Linear equations, radicals, exponents, quadratic equations, inequalities, theory of equations and the binomial theorem. Prerequisite: Two units of high school algebra, one unit of high school geometry and satisfactory score on the Mathematics Placement Test or Math 030 with grade Math 131 (F, S)

3 hrs. cr.

Finite Mathematics

Finite mathematics with algebra that is designed for business, social science and computer science students. Set theory, functions, matrices, linear programming, probability and statistics, with applications. Prerequisite: Two units of high school algebra and satisfactory score on the Mathematics Placement Test or Math 030 with a grade of "C".

Math 140 (F, S)

3 hrs. cr.

Algebra and Trigonometry

Equivalent of Math 112 and Math 130. Prerequisite: Two units of high school algebra, one unit of high school geometry and satisfactory score on the Mathematics Placement Test or permission of instructor. Only two hours credit for students with Math 112 or Math 130 credit.

Math 150 (F, S)

5 hrs. cr.

Calculus with Analytic Geometry I

Differentiation and integration of algebraic functions and plane analytic geometry using vectors. Prerequisite: Math 140 with a grade of "C" or four units of high school mathematics and a satisfactory score on the Mathematics Placement Test.

Calculus with Analytic Geometry II

Differentiation and integration of transcendental functions and trigonometric functions, polar coordinates, theory of limits and continuity, parametric equations. Applications to physical problems. Prerequisite: Math 150 with a grade of "C".

Math 260 (F, S)

5 hrs. cr.

Calculus with Analytic Geometry III

Solid analytic geometry, indeterminate forms, infinite series, partial differentiation and multiple integrals. Prerequisite: Math 250 with a grade of

Math 300 (S)

3 hrs. cr

Fundamentals of Mathematical Thought

Introduction to modern algebra, analysis and proofs; sets, logic, predicate calculus, relations, functions, logical development of number systems, cardinality and divisibility. Prerequisite or corequisite: Math 260.

Math 302 (Demand)

3 hrs. cr. Calculus for the Management and Social

Sciences

Calculus applications of differentiation and integration in business and social sciences. Prerequisite: Math 130 or Math 131 or two years high school algebra and satisfactory score on the Mathematics Placement Test. Will not count toward a major in mathematics.

Math 310 (Demand)

3 hrs. cr.

Elementary Statistics

Provides a basic statistical background for the various majors for advanced study in their specialties. Topics include data reduction, measures of central tendency, linear regression, correlation and hypothesis testing, with applications to social, managerial, biological and physical sciences. Satisfies the Core Curriculum requirements in mathematics. Prerequisite: Two years high school algebra or Math 130. Will not count toward a major in mathematics.

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Math 312 3 hrs. cr.

Problems of Teaching Arithmetic in the

Elementary Schools

(See Educ 312 for description.) Will not count toward a major in mathematics.

Math 322 (S) 3 hrs. cr. Differential Equations

Ordinary differential equations of first and second order, linear equations with constant coefficients, Laplace transforms, power series solutions, numerical solutions, with applications. Prerequisite: Math 260.

Math 332 (F, Even) 3 hrs. cr. **Geometry**

Geometric theory from a modern axiomatic viewpoint. Includes an introduction to finite, projective, Euclidean and non-Euclidean geometries. Prerequisite: Math 250.

Math 339 (S) 3 hrs. cr. **Teaching Mathematics in Secondary Schools** Introduction to the instructional planning, materials and methods of teaching mathematics in the secondary schools. Includes brief survey of the history of algebra and trigonometry. Part of the Professional Semester. Will not count toward a major in mathematics.

Math 342 (F, Odd) 3 hrs. cr. Abstract Algebra

Number theory, equivalence and congruence, theory of groups, rings, ideals, integral domains and fields. Prerequisite: Math 300.

Math 350 (S, Even) 3 hrs. cr. Introduction to Numerical Analysis Error

Analysis, solution of polynomial and transcendental equations, colocation polynomials, matrix methods, numerical differentiation and integration. Prerequisite: Math 250 and Comp 110 or higher.

Math 351 (F, Even) 3 hrs. cr. Linear Algebra

Algebra of linear equations and matrices, vector spaces, linear mappings and transformations, determinants, bilinear and quadratic forms, linear functionals, vector inner products and cross products. Prerequisite or corequisite: Math 300.

Math 361 (F) 3 hrs. cr. Introduction to Probability

Theory of probability using concepts and methods of calculus. A study of discrete and continuous distributions. The central limit theorem. Prerequisite: Math 260.

Math 371 (F, Odd) 3 hrs. cr. Introduction to Operations Research (Writing Intensive)

Operations research/management science for computer science and mathematics students. Includes linear programming, project scheduling, Markov chains, queuing theory. Prerequisite: Math 260 and computer programming ability.

Math 421 (S, Even) 3 hrs. cr. Introduction to Advanced Calculus

Methods of real analysis, basic topology of real numbers, sequences and series, the derivative and the Riemann integral. Prerequisite: Math 300.

Math 431 (S, Odd)
Numerical Analysis

Fundamental numerical analysis theorems. Error Analysis, data approximation techniques, difference calculus, numerical solution of differential equations. Prerequisite: Math 322 and Comp 110 or higher.

Math 452 (S, Even) 3 hrs. cr.

Mathematical Models (Writing Intensive)
Applying mathematics in formulating and analyzing models for real world problems. Topics include game theory, graph models, deterministic and stochastic models and computer simulation. Prerequisite Math 322 and Comp 110 or higher.

Math 462 (S, Odd) 3 hrs. cr Introduction to Mathematical Statistics

Distributions of discrete and continuous random variables, sampling distributions and estimation of parameters. Investigation of the techniques of hypothesis testing, correlation and regression. Prerequisite: Math 361.

Math 498 (Demand) 1-3 hrs. cr. Seminar in Mathematics

For upper division math or related majors. Regular meeting times per week are equal to the number of credit hrs. determined by the department for a given semester. Gives both broad and specialized knowledge of the discipline. Prerequisite: Advanced standing in major field and consent of department head.

Math 499 (Demand) 1-3 hrs. cr. Independent Study

Course structured by the adviser with approval of the department head and school dean. Prerequisite: Advanced standing in the major field with a grade point average of 3.0. Students must make application several weeks in advance. Registration must be approved by the adviser, department head and school dean. See department head for details.

Music (Mus)

Mus 102, 202, 302, 402 (S) 1 hr. cr Opera or Musical Theatre Performance

Performance of a role along with active participation in the different areas of staging the musical or opera. Credit is applied after departmental evaluation and approval at the end of the semester. (Students may not receive credit from both the theatre department and music department for the same production.)

Mus 109 (S) 2 hrs. cr. Sight Singing and Ear Training

Basic skills and concepts needed for sight reading, sight singing, solfege, rhythmic dictation, melodic dictation and harmonic dictation are introduced, studied and applied in aural and notated musical examples. Prerequisite: Mus 111.

Mus 110 (F, S)

3 hrs. cr.

3 hrs. cr.

Music Appreciation

Designed to give the non-music major an insight into musical masterpieces from all eras of music literature.

Mus 111 (F)
Music Theory

3 hrs. cr.

Basic fundamentals of music with initiation of harmonic analysis and partwriting. Basic course for music majors; others by consent of instructor.

Mus 112 (S)

3 hrs. cr.

Music Theory

Sequential course in written harmony, including inversion, seventh chords and non-harmonic tones. Prerequisite: Mus 111.

Mus 113 (F, S)

1 hr. cr.

Class Piano

Reading skills, fundamental piano technique, basic musicianship and elementary repertoire. Material studied varies in accordance with educational purpose. No prerequisite.

Mus 121, 122, 321, 322 Mus (F, S) 2 hrs. cr. **Concert Chorale**

Open to all college students. Preparation and performance of great choral works. Prerequisite: Permission of instructor. Each class may be repeated one time for credit.

Mus 133 (F)

2 hrs. cr.

Opera and Musical Theatre

History, production and performance of one act operas, operatic excerpts, musicals and light opera. Academic concentration the first six weeks on opera history and opera production with the last 10 weeks focusing upon the particular musical or light opera selected for production the spring semester of that year.

Mus 139 (F)

2 hrs. cr.

Musical Theatre and Opera

History, production and performance of one act operas, operatic excerpts, musicals and light opera. Academic concentration the first six weeks on musicals and their production with the last 10 weeks focusing on the particular one act opera(s) and/or operatic excerpts selected for production the spring semester of that year.

Mus 141, 142, 341, 342 (F, S) 1 hr. cr. **Jazz Band**

A stage band open to all students who are qualified instrumentalists. The Jazz Band will prepare and present several concerts during the year, while dealing primarily with music of the jazz idiom. Prerequisite: Permission of instructor. Each class may be repeated twice for credit. Prerequisite: Mus 191, 391, 192 or 392.

Mus 151, 152, 351, 352 (F, S)

2 hrs. cr.

Orchestra

Audition is available to all college students who play an orchestral instrument. The orchestra will present public concerts, performing standard and orchestral literature. Prerequisite: Audition. Each class may be repeated one time for credit.

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Mus 161, 162, 361, 362 (F, S)

1 hr. cr.

Southern Exposure

Small select ensemble. Performs all literature from madrigal to modern music, written for small vocal ensemble. Prerequisite: Audition. Each class may be repeated twice for credit. Corequisite: Mus 121, 122, 321 or 322.

Mus 171, 172, 371, 372 (F, S)

1 hr. cr.

Brass Choir Open to all students with band instrument experience. Performance of literature for brass ensemble. Each class may be repeated twice for

Mus 182 (F)

credit.

2 hrs. cr.

Conducting Techniques

Baton technique, factors in interpretation, score reading and rehearsal procedures for instrumental and vocal organizations. Included is experience conducting live rehearsals. Prerequisite: Mus 112.

Mus 191, 391 (F)

2 hrs. cr.

Marching Band

Open to all qualified students with high school band experience. A study and practice of the fundamentals of drill and presentation of musical marching maneuvers. Prerequisite: Permission of instructor. Each class may be repeated twice for credit.

Mus 192, 392 (S)

2 hrs. cr.

Concert Band

Open to all qualified students with band instrument experience. Rehearsal and public performances of composite repertoire. Prerequisite: Permission of instructor. Each class may be repeated twice for credit.

Mus 210 (F)

2 hrs. cr.

Sight Singing and Ear Training

Sequential course in using the skills and concepts in sight singing and ear training. Sight reading of melodies of increasing difficulty. Ear training emphasis will be in harmonic dictation. Prerequisite: Mus 109.

Mus 211 (F)

3 hrs. cr.

Music Theory

Modulation, diatonic, seventh chords, altered chords, advanced partwriting procedures. Prerequisite: Mus 112.

Mus 212 (S)

3 hrs. cr.

Music Theory

Secondary dominant chords, augmented triads and sixth chords, advanced modulation, introduction to contemporary techniques. Prerequisite: Mus 211.

Mus 219 (Demand)

2 hrs. cr.

Vocal Diction

Applied voice students receive instruction in the correct pronunciation of English, Italian, French, German and Ecclesiastical Latin as used in the study of vocal literature.

Mus 231 (S)

1 hr. cr.

String Techniques

Class instruction in the string instruments, including a study of methods and materials to be used in the teaching of beginning students.

Mus 232 (F)

1 hr. cr.

Brass Techniques

Class instruction in the brass instruments, including a study of methods and materials to be used in the teaching of beginning students.

Mus 233 (S)

1 hr. cr.

Percussion Techniques (Not open to percussion majors)

Class instruction in the percussion instruments, including a study of methods and materials to be used in the teaching of beginning students.

Mus 234 (F)

1 hr. cr.

Woodwind Techniques

Class instruction in the woodwind instruments, including a study of methods and materials to be used in the teaching of beginning students.

Mus 240 (F, S)

0 hrs. cr.

Recital Attendance

Attendance at designated afternoon and evening recitals and concerts is required of all music majors each semester.

Mus 298 (Demand)

1-3 hrs. cr.

Selected Topics in Music

Study of special topics in music not included in another course. Prerequisite: Permission of in-

Mus 309 (F)

2 hrs. cr.

Choral Techniques

Designed to formulate principles for directing secondary and adult choral ensembles. Covers motivational techniques, including body language, verbal skills, understanding of the vocal mechanism and the function of rhythm in the musical phrase. Explores various organizational methods, rehearsal procedures and teaching materials. Also includes conducting techniques conducive to encouraging proper vocal technique. Prerequisite: Permission of instructor.

Mus 311 (F)

3 hrs. cr.

History of Music

General survey of history of music from Greek period to 18th century. Prerequisite: Mus 211.

Mus 312 (S)

3 hrs. cr.

History of Music

From 18th century to the present. Score reading required. Prerequisite: Mus 211.

Mus 332 (F, S)

2 hrs. cr.

Music for the Elementary School

Methods of teaching music in the elementary classroom and a study of materials to be used.

Mus 333 (Demand)

2 hrs. cr.

Music for the Elementary Grades

Methods of teaching music in the elementary classroom and a study of materials to be used. Restricted to music majors and advanced music students. Prerequisite: Mus 112.

Mus 411 (F)

2 hrs. cr.

Marching Band Methods

Procedures needed in organization, promotion, equipping, rehearsing and performance of a marching band including study of musical repertoire and charting of field maneuvers. For music majors; others by consent of instructor. Prerequisite: 2 semesters marching band. Corequisite: Mus 191 or 391.

Mus 420 (F)

3 hrs. cr.

Form and Analysis

Harmonic and formal analysis of composition from the Baroque Era through contemporary music. Prerequisite: Mus 212 or permission of instructor.

Mus 431 (S)

3 hrs. cr.

Orchestration

Capacities of orchestral instruments. Scoring for various orchestral combinations, including full orchestra. Prerequisite: Mus 212 or permission of instructor.

Mus 432 (F)

2 hrs. cr.

Music in the Public School

Acquaints music education majors with problems of administration and supervision of the school music program through high school level. Content includes the place of music in the school program, music equipment, schedules, budget, instructional problems and public relations in music. Prerequisite: Mus 212.

Mus 444 (F)

Advanced Conducting Techniques

Conducting skills, including irregular beat patterns, advance technical problems, and methods developed for solving them. Prerequisite: Mus

Mus 450

0 hrs. cr.

Senior Recital

A solo recital is required of all music majors. The recital is to be given within the last year of residency. Corequisite: Mus 407 or 408.

Mus 498 (Demand)

1-3 hrs. cr.

Seminar in Music

For upper division music majors or related majors. Topics and methods not included in other courses. Permission of instructor is required.

Mus 499 (Demand)

1-3 hrs. cr.

Independent Study

Structured by the adviser with approval of the department head and school dean. Prerequisite: Advanced standing in the major field with a GPA of 3.0. Registration must be approved by the adviser, department head and school dean.

Applied Music (Private Lessons)

Major in: Brass, Keyboard, Percussion, String, Woodwind and Voice. All applied music offerings may be repeated twice for credit.

Mus 115 Applied Music Brass Elective Mus 125 Applied Music Keyboard Elective 1 hr. cr. Mus 135 Applied Music Percussion Elective 1 hr. cr.

Mus 145 Applied Music String Elective 1 hr. cr. Mus 155 Applied Music Woodwind Elective 1 hr. cr.

Mus 165 Applied Music Voice Elective 1 hr. cr. Mus 116 Applied Music Brass Elective 1 hr. cr.

Mus 126 Applied Music Keyboard Elective

Courses • Paralegal, Philosophy / 95

Mus 100 Applies	I Music Developation Florities		
	Music Percussion Elective Music String Elective		r. cr.
	Music Woodwind Elective		r. cr. r. cr.
	Music Voice Elective		r. cr.
	Music Brass Elective		r. cr.
	Music Keyboard Elective		r. cr.
	Music Percussion Elective	e 1h	r. cr.
	Music String Elective		r. cr.
	Music Woodwind Elective		r. cr.
	Music Voice Elective		r. cr.
Mus 316 Applied	Music Brass Elective		r. cr.
Mus 326 Applied	Music Keyboard Elective Music Percussion Elective		r. cr.
	Music String Elective		r. cr.
	Music Woodwind Elective		r. cr. r. cr.
	Music Voice Elective		r. cr.
	Music Brass Elective		s. cr.
	Music Keyboard Elective	2 hrs	
	Music Percussion Elec	2 hrs	
	Music String Elective	2 hrs	
	Music Woodwind Elective	2 hrs	s. cr.
	Music Voice Elective	2 hrs	1
	Music Brass Elective	2 hrs	
	Music Keyboard Elective	2 hrs	
	Music Percussion Elec	2 hrs	
	Music String Elective	2 hrs	
	Music Woodwind Elect Music Voice Elective	2 hrs	
	Music Brass Elective	2 hrs	
	Music Keyboard Elective	2 hrs	
	Music Percussion Elec	2 hrs	
	Music String Elective	2 hrs	
	Music Woodwind Elec	2 hrs	
Mus 367 Applied	Music Voice Elective	2 hrs	cr.
	Music Brass Elective	2 hrs	
Mus 328 Applied	Music Keyboard Elective	2 hrs	cr.
	Music Percussion Elec	2 hrs	
	Music String Elective	2 hrs	
	Music Woodwind Elective		
	Music Voice Elective Music Brass Elective	2 hrs	
	Music Keyboard Elective	2 hrs	
	Music Percussion Elec	2 hrs	
	Music String Elective	2 hrs	
	Music Woodwind Elective		
Mus 267 Applied	Music Voice Elective	2 hrs	. cr.
Mus 218 Applied	Music Brass Elective	2 hrs	
Mus 228 Applied	Music Keyboard Elective	2 hrs	. cr.
	Music Percussion Elect	2 hrs	
and the state of t	Music String Elective	2 hrs	
	Music Woodwind Elec	2 hrs	
	Music Voice Elective	2 hrs	
	Music Brass Elective Music Keyboard Elective	2 hrs 2 hrs	
	Music Percussion Elec	2 hrs	
	Music String Elective	2 hrs	
	Music Woodwind Elec	2 hrs	
	Music Voice Elective	2 hrs	
		2 hrs	
Mus 428 Applied	Music Keyboard Elective	2 hrs	. cr.
Mus 438 Applied	Music Percussion Elec	2 hrs	. cr.
	9	2 hrs	
		2 hrs	
		2 hrs	. cr.
Elective in Jazz Im	iprovisation	1 1	~
Mus 114		1 hr	
Mus 214 Elective in Piano F		2 hrs	. CI.
Mus 103	TOTOLOGICY	1 hr	cr
Mus 203		2 hrs	

Paralegal (PLS)

PLS 201 (F)

3 hrs. cr.

Introduction to Legal Assistance

American legal system with emphasis on the roles, skills and tasks of the paralegal. Topics include professional ethics, client interviewing and legal analysis.

PLS 298 (Demand)

3 hrs. cr.

Topics in Paralegal Studies

Special topics of current interest to the student. Subjects are changed each semester. Students are encouraged to submit areas of interest to the social science department.

PLS 301 (F, S)

3 hrs. cr.

Legal Environment of Business I (See GB 301).

GB 302 (F, S)

3 hrs. cr.

Legal Environment of Business II (See GB 302).

GB 302 (F, Odd)

Legal Research

Research involved in case preparation; use of the law library and the various digests, encyclopedias, reporters, etc., contained therein.

PLS 310 (Demand)

3 hrs. cr.

Law, Society and the Judicial Process (Writing Intensive)

American legal system with special attention to the organization, methods, processes and behaviors of the judiciary.

PLS 311 (S, Odd)

3 hrs. cr.

Laws relating to real and personal property with emphasis on the procedures and forms used in real estate transactions and conveyances such as; deeds and contracts.

PLS 312 (S, Even) **Civil Litigation**

3 hrs. cr.

Process of civil litigation from filing to appeal including rules for instituting and conducting lawsuits before federal and state courts, rules of procedure, and the preparation of pertinent legal forms.

PLS 320 (S, Even)

Family Law

3 hrs. cr.

Laws regulating marriage, adoption, divorce, division of property, child custody and support, adult abuse and termination of parental rights and the

PLS 401 (F, Even)

3 hrs. cr.

3 hrs. cr.

Wills, Trusts and Probate

preparation of pertinent legal forms.

Law of wills, trusts and intestate succession; includes analysis of the administration and probate of estates and the preparation of pertinent legal forms.

PSc 431 (F, Even) Constitutional Law I (See PSc 431).

PSc 432 (S, Odd) Constitutional Law II (See PSc 432).

3 hrs. cr.

PLS 491 (Demand) Internship

3 hrs. cr.

An applied internship of 135 hrs. done under the supervision of a practicing professional who is directly engaged in a day-to-day application of the law (i.e. judges, attorneys, government officials) as approved by department head.

PLS 498 (Demand) **Senior Seminar**

3 hrs. cr.

Comprehensive analysis and review of selected legal topics to be announced when course is offered. Prerequisite: 9 hrs. of paralegal studies or consent of instructor.

1-2-3 hrs. cr.

Independent Study

Study and research by the student under the direction and supervision of instructor/adviser with prior approval by department head and school dean. Prerequisites: Advanced standing in the major field and a minimum GPA of 3.0

Philosophy (Phil)

Phil 140

3 hrs. cr.

Critical Thinking

Introduction to logic, with special emphasis on common errors and fallacies in reasoning.

3 hrs. cr.

Introduction to Philosophy

Comparative survey of major types of philosophy and of representative problems in philosophy. Satisfies 3 hrs. of Core Curriculum requirements in Area 2C on page ().

Phil 212 **Ethics**

3 hrs. cr.

Exploration of the problems of value and personal moral standards, comparative survey of major

ethical systems and evaluation of the chief ethical struggles in contemporary society.

Phil 298

3 hrs. cr.

Topics in Philosophy

Studies in a variety of philosophical subjects. Topic open.

Phil 301

3 hrs. cr.

Ancient Philosophy

Historical study of ancient philosophy, with special emphasis on the writings of Plato and Aristotle. Prerequisites: 3 hrs. of philosophy or permission of instructor.

Phil 302

3 hrs. cr.

Modern Philosophy

A survey of the major schools of western philosophy from 1550 to 1850. Prerequisites: 3 hrs. of

philosophy or permission of instructor.

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Phil 312 Biomedical 3 hrs. cr.

Ethics A comprehensive investigation of ethical problems relating to health care and the practice of medicine, including study of such issues as euthanasia and the right to die, abortion, confidentiality, patient rights and professional responsibilities, allocation of medical resources, and medical experimentation.

Phil 320

3 hrs. cr.

Comparative Religion

A philosophical and historical survey, emphasizing the world's major living religions. (Meets Core Curriculum requirements in Area 5, International Cultural Studies.)

Phil 420

3 hrs. cr.

Philosophy of Science

Investigation of the nature and scope of scientific inquiry. Topics include the logic of scientific reasoning, the nature of scientific theories, the conceptual presuppositions of science, and the relation between the natural and social sciences. Prerequisites: 3 hrs. of philosophy or permission of instructor.

Phil 498

3 hre or

Seminar in Philosophy

Comprehensive analysis of selected topics in philosophy. For upper division students.

Phil 499

1-3 hrs. cr.

Independent Study

Individually directed study in selected areas for advanced students. Prerequisite: GPA of 3.0 in philosophy. Enrollment must be approved by adviser, department head and school dean.

Physics (Phys)

Phys 100 (F, S, SS)

5 hrs. cr.

Fundamentals of Physical Science

Basic concepts in the fields of physics, chemistry, geology and astronomy will be presented as time permits. Emphasis on a detailed picture of energy and its uses, including an understanding of both mechanical and thermal efficiencies and the limitations that these efficiencies place on our world. Central to the course will be a working ability in applying some of the basic laws of nature to specific problems. Lecture and demonstration periods. Prerequisite: Qualified to take Math 110 or higher. (It is best to satisfy the math requirement before taking this course.)

Phys 101

5 hrs. cr.

Physical Science for Elementary Teachers

Basic concepts in the field of physical science. Central to the course will be a working ability in applying some of the basic laws of nature to specific problems. Four lecture and demonstration periods, one 2-hr. lab per week. Prerequisite: Qualified to take Math 110 or higher. (It is best to satisfy the math requirement before taking this course.)

Phys 120 (Summer)

Physics for Teachers 7-9

Essential subjects of physics at a level accessible with only a college algebra background. Primarily for teachers who need a physics course to satisfy the state requirement in physics for certification in science 7-9. Three hrs. lecture, one 2-hr. lab recitation class per week. Prerequisite: Math 130

Phys 140 (F, S)

or equivalent.

3 hrs. cr.

4 hrs. cr.

Essential Skills for Physics

Physics preparatory class covering vector techniques, geometrical and trigonometrical applications in physics, analysis of one-dimensional motion and setting up word problems. Three hrs. lecture per week. Prerequisite: Math 140.

Phys 151 (F, S, SS)

5 hrs. cr.

Elementary College Physics I

Mechanics, rotational dynamics, properties of matter, heat, wave motion and sound. Four hrs. lecture, one 2-hr. lab per week. Prerequisite: Math 140.

Phys 152 (S)

3 hrs. cr.

Elementary College Physics II

Electricity, electric circuits, magnetism and optics. Two hrs. lecture, one 2-hr. lab per week. Prerequisite: Phys 151.

Phys 180

3 hrs. cr.

Introduction to Meteorology

Fundamentals of the circulation of the atmosphere, sequence of weather events and climate. Includes interpretation of weather maps and climatic data. Three lectures per week. Prerequisite: Phys 100 or equivalent (does not count toward a physics major). Cross listed as Geol 180.

Phys 250 (F, S)

5 hrs. c

General Physics I

Introductory study (with emphasis on vector methods) of the mechanics of particles and rigid bodies and a study of heat and temperature. Four hrs. lecture, one 3-hr. lab/recitation class per week. Prerequisite: Math 150 and Phys 140 or permission of instructor.

Phys 260 (F, S)

5 hrs. cr.

General Physics II

Electricity, magnetism, waves and geometrical and physical optics. Four hrs. lecture, one 3-hr. lab/recitation class per week. Prerequisite: Phys 250 and Math 250.

Phys 298 (F, S)

1-3 hrs. cr.

Selected Topics in Physical Science

Special topics in physical science not normally offered in other courses. Prerequisite or corequisite: Math 130 or equivalent.

Phys 300 (Demand)
Astronomy

3 hrs. cr.

The solar system. Kepler's laws, celestial coordinates and observing. Hertzprung-Russell diagrams, stellar evolution, pulsars, black holes, nebulae, galaxies and cosmology. Three lectures per week. (Does not count toward a physics major.) Prerequisite: Phys 100 or equivalent and one year high school algebra.

Phys 301 (F)

4 hrs. cr.

Modern Physics

Wave motion, special theory of relativity, waveparticle experiments, introductory quantum mechanics and nuclear physics. Prerequisite: Phys 260. Corequisite: Math 260.

Phys 312 (S, SS) Statics

3 hrs. cr.

Principles of mechanics as applied to problems of engineering in which the structures under consideration are in static equilibrium. Three lectures per week. Prerequisite: Phys 250.

Phys 322 (S, Even)

3 hrs. cr.

Classical Mechanics
Kinematics and dynamics of particles and systems of particles including the harmonic oscillator, potential functions, conservative fields of force, accelerated reference frames, energy, gravitation, rigid bodies and an introduction to the mechanics of continuous media. Three hrs. lecture per week. Prerequisite: Phys 250, Corequisite: Math 322 or permission of instructor.

Phys 341 (S, Odd)

4 hrs. cr.

Thermal Physics

Temperature, transfer of heat, laws of thermodynamics, entropy, enthalpy, reversibility and irreversibility, thermal properties of materials, change of phase, use of thermo tables and introduction to heat transfer. Four hrs. lecture per week. Prerequisite: Phys 250; corequisite: Math 260.

Phys 372 (S)

4 hrs. cr.

Electronic Circuits

Ohm's law, Kirchoff's laws, Nodal analysis, mesh analysis, Thevenin's and Norton's theorems, superposition, inductors and capacitors, source-free RL and RC circuits, RLC circuits. Complex variables and their application to steady-state AC circuits. Two 3-hr. lectures and lab per week. Presently limited to 15 students by equipment considerations. Prerequisite: Phys 260, Corequisite: Math 260.

Phys 381 (Demand)

3 hrs. cr.

Intermediate Physics Laboratory

(Writing Intensive)

Experiments in classical and modern physics, including wave phenomena, heat transfer, electrical measurements, optics, photoelectric effect and radioactivity. Two 3-hr. lab per week. Prerequisite: Phys 301 or permission of instructor.

Phys 401 (F, Odd)

4 hrs. cr.

Electricity and Magnetism

Electrostatic forces, electric fields, electric potential, properties of conductors and dielectrics, magnetic fields, magnetic properties, induced electromotive force, Maxwell's equations and electromagnetic waves. Four hrs. lecture per week. Prerequisites: Math 260 and Phys 260.

Phys 452 (Demand)

3 hrs. cr.

Quantum Mechanics
Time independent Schroedinger equation,

eigenfunctions, expectation values, differential operators, pertubation theory, multielectron atoms and applications to solid state physics. Three hrs. lecture per week. Prerequisite: Phys 301 and Math 322.

Courses • Political Science / 97

Phys 480 (Demand) 3 hrs. cr. Selected Topics in Physics and Engineering One or more of the following topics for further study: solid state physics, optics, nuclear physics, advanced mechanics, quantum mechanics, circuit analysis, thermodynamics, fluid mechanics heat transfer and mechanics of materials. Open to students having a minimum of 18 hrs. of physics and permission of instructor.

Phys 498 (F, S) 1-3 hrs. cr. **Seminar**

Topics of current interest by the student from the areas of physics and engineering. Secondary education majors will be required to present several lecture-demonstration programs illustrating the basic concepts in physics at the secondary level. Open to students having a minimum of 18 hrs. of physics and permission of instructor.

Phys 499 (F, S) 1-3 hrs. cr. Independent Study

Course structured by the adviser with approval of the department head. Prerequisite: Advanced standing with a GPA of 3.0 in the major field. Registration must be approved by the adviser, department head and school dean.

Political Science (PSc)

PSc 120 (F, S) 3 hrs. cr. Government: U.S., State & Local

Designed to give students an understanding of their governments, enabling them to keep up with political developments with the goal of becoming informed citizens needed to sustain democracy. A Core Curriculum requirement for all bachelor's degrees.

PSc 298 (Demand) 3 hrs. cr.

Topics in Political Science

Special political science topics of current interest to the student or faculty member who offers the class. Subjects and instructors change each semester. Students are encouraged to suggest possible course topics to the political science faculty.

PSc 300 3 hrs. cr. Introduction to Political Science Methods

The nature, possibilities and limitations of political inquiry emphasizing research methods and tools. A valuable course for students who wish to engage in nonlibrary types of research projects.

PSc 301 (F, Even) 3 hrs. cr. Political Parties and Elections

Analysis of the origins, structure and functions of political parties; the dynamics of the two-party system; the role of third parties and the election process.

PSc 302 (F, Odd) 3 hrs. cr. **Public Opinion and Pressure Groups**

Origins, impact and measurement of public opinion. Scope, nature and powers of interest groups in American society with special attention to their role in formulating public opinion and public policy. PSc 310 (Demand) 3 hrs. cr. **Law, Society and the Judicial Process**

(Writing Intensive)

American legal system viewed from a social and political as well as legal perspective. Focus on the structure and organization of courts, the processing of civil and criminal cases and the behavior of judges, lawyers and other participants in the judicial process.

PSc 311 (Summer) 3 hrs American Presidency

Politics of presidential selection, the powers of the President, the organization of the executive branch and its relations with other organs of government.

PSc 312 (S, Even) 3 hrs. cr. **Legislative Process**

Problems of representation, organization of the legislature, participation and proposals for improved organization. Emphasis on the United States Congress.

PSc 320 (S, Odd) 3 hrs. cr. State Government

General structure, theories, operation and problems of state government with special emphasis on the government of Missouri.

PSc 321 (F, Even) 3 hrs. cr. International Relations

Present-day relations and problems among the states of the world and the major factors which underline and influence these relations.

PSc 322 (S, Odd) 3 hrs. cr. International Law

Rules and principles accepted by the members of the community of nations as defining their rights and duties and the procedures employed in protecting their rights and performing their duties.

PSc 331 (F, Odd) 3 hrs. cr.

Comparative Government: Europe

An analysis of the governments of selected European countries emphasizing the development of their political systems both in theory and practice. Comparisons with American governmental institutions.

PSc 332 (S, Even) 3 hrs. cr. Comparative Government: Latin America

Governments and cultures of selected Latin American countries emphasizing the development of their political systems in both theory and practice.

PSc 341 (S, Even) 3 hrs. cr. Municipal Government

Structure, legal status, functions and organization of city, town and village government in the United States.

PSc 342 (F, Even) 3 hrs. cr. Public Policy

An introductory survey of the formulation, execution and evaluation of public policy in the United States. Prerequisite: PSc 120.

PSc 411 (F, Odd) 3 hrs. cr.
Political Theory Selected

Western political philosophies from early recorded history through the present time.

PSc 412 (S, Even) 3 hrs. cr.

Contemporary Political Thought
Twentieth century political ideas.

PSc 421 (F, Odd) 3 hrs. cr. **Public Administration**

Administrative aspects of government; surveys the major subfields of public administration, i.e., politics and administration, organizational theory, organizational behavior, management, decision making, personnel, public budgeting and finance, policy analysis and program evaluation and administrative law. Prerequisite: Junior standing or consent of instructor.

PSc 431 (F, Even) 3 hrs. cr. Constitutional Law I

Political and legal aspects of Supreme Court decision making, the nature and scope of judicial review, the constitutional relationships between levels and branches of government and the First Amendment rights of freedom of expression.

PSc 432 (S, Odd) 3 hrs. cr. Constitutional Law II

Legal issues concerning the Bill of Rights and the First Amendment areas of free exercise and establishment of religion, the right to privacy, the 14th amendment due process, and equal protection clauses.

PSc 496 (Demand) 3-8 hrs. cr. Internship in Political Science

Observation of and participation in governmental work under the direct supervision of a faculty member and a professional who is employed in the governmental position being observed. No more than 3 hrs. may be counted toward a major or minor.

PSc 497 (Demand) 8 hrs. cr. Capital Internship

Observation of and participation in governmental work under the direct supervision of a faculty member and a professional who is employed in the governmental position being observed. The student will live and work in the capital from the opening of the legislative session until its conclusion or the last day of MSSC's spring semester.

PSc 498 (Demand) 3 hrs. cr. Seminar in Political Science (Writing Intensive) Specialized knowledge and/or current research in the discipline. Topics will vary by situation and instructor. Students will prepare and critique papers based on original research. Prerequisite: 9 hrs. of upper division political science.

PSc 499 (F, S) 1-2-3-4 hrs. cr. Independent Study

For students who wish to do an indepth study of some specialized topic or who wish to pursue a topic not considered in the department's course offerings. The student will select an adviser from the political science faculty who will structure the independent study in consultation with the student and with the approval of the department head. Prerequisite: Junior or senior status and an overall cumulative GPA of 3.0 or better. Enrollment must be approved by department head and school dean.

Sociology (Soc)

Soc 110 (F, S)

3 hrs. cr.

Introduction to Sociology

A systematic study of society. Emphasis on major concepts of sociology and the scientific point of view in dealing with social phenomena. Satisfies a Core Curriculum requirement.

Soc 155 (F)

3 hrs. cr.

Physical Anthropology and Archaeology Physical and cultural anthropology with particular emphasis on the linkage of human prehistory to

the development of culture and the human capacity for society. Can be used to satisfy the Core Curriculum requirement in Area 5.

Soc 210 (F, S)

3 hrs. cr.

Social Problems

Causes and consequences of economic, political and social problems that significantly affect society and the quality of life in it. Emphasis on elements and processes within the structure of American society rather than on individual pathologies and behaviors as causes of social problems. Some analysis of possible solutions is also included. Prerequisite: Soc 110.

Soc 221 (F)

3 hrs. cr.

Marriage and Family

Paired relationships, marriage as the genesis of family life, elements in the preparation for marriage and parenthood and the development of family relationships throughout the life cycle.

Soc 291 (F)

3 hrs. cr.

The Sociology of Death and Dying

A review of the international religious, secular and scientific expressions regarding death. Historical and current issues pertaining to death are explored and a critical perspective is taken on all positions. The course incorporates both philosophical and pragmatic overviews of death and dying.

Soc 298 (Demand)

3 hrs. cr.

Topics in Sociology

Special sociology topics of current interest. Subjects and instructors may vary each semester. Students are encouraged to submit areas of interest to the social science department.

Computer Applications in the Social Sciences An analysis of computers and their applications in the social sciences. Focus on preexisting software designed for use by social science disciplines. Emphasis on data entry, analysis and interpretation of printouts. Prerequisite: Comp 105 and Psy 320. Advised to be taken with Soc 432.

Soc 301 (F)

3 hrs. cr.

Sociology of Religion

Religion as a major social institution. Compares religions regarding behavioral content. Major attention is given to the nature of religion, organized religion and how religion is integrated into society. Limited attention given to the behavioral expectations associated with the major religions of the world. Prerequisite: Soc 110.

The Arab World

3 hrs. cr.

A social science view of the Arab world which identifies peoples, countries, geographical settings, cultural differences, cultural change, political and religious affiliations, and the emergence of contemporary issues. Special emphasis will be placed upon the Israel - Palestine - Jordan prob-

Soc 306 (S)

3 hrs. cr.

Sociology of Aging

A review of aging studies with particular emphasis on needs, problems, areas of concern, aging theories, social services for the elderly and accumulated data from gerontological research. Such topics as life changes, retirement and alternative life styles among the elderly will be analyzed. Prerequisite: Soc 110.

Soc 309 (F)

3 hrs. cr.

Multi-Cultural Aging

An analysis of older people in different cultures and how the normative structure of each culture creates variation within the aged. Roles the elderly play in day-to-day life and how their positions influence intergenerational relationships will be examined. Emphasis will be placed on cultural groups within the United States and select groups in other countries. Prerequisite: Soc 110.

Soc 311 (F)

3 hrs. cr.

Social Stratification (Writing Intensive) Examination of differences in power, privilege and prestige. Analysis of the nature and input of social inequality on people's lives within the United States and an overview of the complex array of social structures which comprise international systems of inequality. Theoretical explanation for the variations in social class usually incorporated in course requirements. Prerequisite: Soc 110.

Soc 312 (S)

Juvenile Delinquency

Analysis of environment and social background for juvenile delinquency behaviors. Investigation of behavioral content and scope of official delinquency. Review of the influences of family, school, peer groups and gangs, and the juvenile justice and corrections system. Prerequisite: Soc 110.

3 hrs. cr.

Sociology of Work and Leisure

Analysis of work, occupations, career mobility and job satisfaction as important elements in society. Examination of leisure activities which alter with technological advances and the changing economic base. Prerequisite: Soc 110.

Soc 331 (F)

3 hrs. cr.

Introduction to Social Work

Philosophical and historical development of social work as a professional career. Focuses on role of the social worker within the various practice settings. Will entail field trips and guest speakers.

Soc 332 (S)

3 hrs. cr.

Social Work Practice

Emphasizes the development of skills needed to initiate, enhance, or restore relationships between clients and society. Focuses on techniques and case management, analysis of cases and practical experience in a social agency or community program providing human services. Admission dependent on departmental committee approval. Prerequisite: Soc 331 and junior standing.

Soc 341 (F)

3 hrs cr

Social Psychology

(See Psy 341)

Soc 342 (S)

3 hrs. cr.

Comparative Cultures

A comparative study of human society and culture, focusing on theories of culture and cultural institutions as they relate to contemporary preindustrial peoples. An ethnographic examination of representative groups is provided for purposes of cross-cultural comparison. Can be used to satisfy the Core Curriculum requirement in Area 5. Prerequisite: Soc 110 or 155 or consent of instructor.

Soc 351 (F)

Criminology

Social and legal concept of crime. Review of measurements and data of crime(s) and the theories related to the cause of criminal behaviors. Discussion of profiles of different adult offenders and their behavioral characteristics relative to the major felonies committed in contemporary society. Prerequisite: Soc 110.

Soc 354 (S)

3 hrs. cr.

Sociology of Medicine

A review of certain sociological data which affect people's health status, health care and health outlook. Focus on aging, social stratification, demographics and economic issues relevant to health status. A review of the history, change and cross cultural comparisons of health care. Prerequisite: Soc 110.

Soc 361 (F)

3 hrs. cr.

The Study of Populations

Changes in human population through an analysis of birth rates, death rates and migrations. Social demographic analysis of census and independent research data. Various population theories are applied to national and world situations. Concepts of over-population, minority groups and aging are analyzed. Prerequisite: Soc 110.

Soc 362 (S)

3 hrs. cr.

Deviant Behavior

Theoretical explanations of socially disapproved behavior from the sociological perspective and the application of these concepts to specific forms of deviance. Analysis of the social nature of conforming behavior as a way of increasing understanding of deviant behavior. Prerequisite: Soc 110 and Soc 210 (or) consent of instructor.

Courses • Theatre / 99

Soc 382 (S) 3 hrs. cr.

Minority Groups and Race Relations

A study of racial and cultural groups particularly focusing on the United States with some analysis of international ethnic relations. Analyzes several general theories and explanations for minoritydominant relations. Includes a study of legislation affecting minorities in the U.S. Prerequisite: Soc 110 or consent of instructor.

Soc 391 (F) 3 hrs. cr.

Penology and Corrections

Philosophy, history and operations of penitentiary systems with special attention given to changes in adult institutions. Explanation of the problems associated with prison populations and types of facilities along with sentences, therapeutic models and community treatment. Prerequisite: Soc 110.

Soc 402 (S) 3 hrs. cr. The Community - Rural and Urban

(Writing Intensive)

Social processes of human groups who share common unities of territory and cultural bonds. Major attention on gemeinschaft-gesellschaft theories as they pertain to national, rural, urban. ethnic and subcultural communities, and how these intertwine in contemporary societies. Prerequisite: Soc 110.

Soc 431 (F) 3 hrs. cr. Sociological Research Methods

Methods of problem and hypotheses formulation and data collection, including interviewing and instrumentation. Focus on the analysis of research findings and ethical procedures. Emphasizes survey designs employed in socio-

logical inquiry. Prerequisite: 12 hrs. of sociology. Soc 445 (Demand) Mass Society and Social Movements

Critical analysis of the structural elements of contemporary mass society and their effect on social groups and individuals. The function of social movements as forms of resistance and change in modern society. Prerequisite: 9 hrs. of sociology or consent of instructor.

3 hrs. cr. Soc 482 (S) Sociological Theory

Classical and contemporary theory placed in historical perspective. An analysis and interpretation of social groups, social organizations and social systems through the study of social thought from Auguste Comte to theorists in the modern period. Prerequisite: 9 hrs. of sociology.

1-8 hrs. cr. Soc 496 (Demand) Internship in Sociology

Observation of and participation in various social service agencies in the community. All internships must conform with institutional policy regarding the number of hours per credit and contractual agreements with cooperating agency personnel. No more than three hours may be counted toward a major or minor. Prerequisites: 15 hrs. of sociology, junior standing or above and approval of a departmental committee

Soc 498 (Demand) Seminar in Sociology

For upper division sociology majors. Topics covered and methods used will place emphasis on student-instructor interest, desire to pursue indepth research and ability to assimilate topics. It will include areas not already treated in other sociology courses. Prerequisite: 15 hrs. of sociology or consent of instructor.

Soc 499 (Demand) Independent Study 1-2-3 hrs. cr.

3 hrs. cr.

Structured by the adviser with the approval of the department head and school dean. Prerequisite: Advanced standing in the major field with a GPA of 3.0. Enrollment in the course must be approved by department head and dean.

Theatre (Th)

Th 101,102,201,202,301,302,401,402 (F, S, S) 1 hr. cr.

Theatre Performance

The performance of a role, service as a designer or stage manager which has met departmental standards on a major production. A student may accumulate up to 8 hours of credit. Credit is applied for after production closes. Credit applies only to accumulative graduation hours.

Th 110 (F, S, S)

Theatre Appreciation

Introduction to the what, why, how and who of theatre. Sessions deal with dramatic form, style and structure; the contributions of various theatre artists; and interpretation and evaluation of plays through scripts and live and taped performances. Provides knowledge and experience for personal enjoyment and evaluation of theatre art. Satisfies 3 semester hours of Core Curriculum requirement in humanities and fine arts, Area 2A or 2C.

Th 121,122,221,222,321,322 (F, S) 2 hrs. cr. **Theatre Laboratory**

A laboratory devoted to mounting the theatre's season. Meets two hrs. in sequence twice a

Th 142 (S, Even) 3 hrs. cr. Theatre Technology

Hardware and tool usage and technical drawing as applied to theatre. The use of electricity, sound and electronics in the theatre. Stage rigging.

Th 212 (F, Odd) 3 hrs. cr. **Oral Interpretation**

Principles and techniques for the public presentation of oral reading. Selection, analysis and preparation of different types of literature with emphasis on platform presentation of prose, poetry, drama and Readers Theatre.

Th 231 (F, Odd)

3 hrs. cr.

Speech for Stage

Exercises and drills to improve projection, quality, flexibility and effectiveness of the speaking voice leading to good usage in Standard American speech, based on the International Phonetic Al-

Th 232 (S, Odd)

3 hrs. cr.

Costume Technology

Basic techniques for construction of stage costumes from a designer's sketch. Areas covered are: fabrics, pattern development, cutting, sewing, dveing and crafts. No previous skills required. Two hours lecture, 2-hrs. lab per week.

Th 233 (F, Odd)

3 hrs. cr.

Stage Makeup

Examination of the usages of stage makeup techniques in design and application. Detailed categories of professional makeup materials. usage techniques, sources and costs of material, and demonstrations of various methods of design and application. Each unit of lecture and demonstration will be accompanied by student individual and group study with projects presented in class for critical review. Students must provide individual makeup supplies.

Th 241 (S, Even) 3 hrs. cr. Acting I

Development of individual's ability to express thought and emotion through effective use of the voice and body. Character analysis and creation revealed in exercises and scene work.

Th 242 (Demand)

1 hr. cr.

Theatre Movement I

Historical development and implementation of theatrical movement. Exercises and assignments focus on the enhancement of nonverbal character interpretation through individual study and in-class application of movement, gestures and postures, including an assimilation of cultural influences, pantomime, masque and improvisation. Two 1 hr. labs per week.

Th 250 (Demand) 1-6 hrs. cr. **Summer Theatre Production**

Students serve as cast and crew members for a summer production. Practical theatre experience in acting, design and construction of all areas, plus theatre management.

Th 251 (S, Odd)

1 hr. cr.

Audition

Techniques for the actor techniques of auditioning and interviewing in the theatre: selecting audition pieces, rehearsing and performing auditions. Instruction in preparing resumes and photographs for professions.

Th 298 (Demand)

3 hrs. cr.

Exploration in Theatre

Concentrated study on a variety of selected theatre topics. Each offering on a different subject. May be repeated, but same topic only once.

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Th 311 (F, Even)
Stage Management

3 hrs. cr.

Fundamentals of stage management. Organization of call board, rehearsals and performances. Communication procedures between actors, director and designers. Calling the show. Prerequisite: Th 142.

Th 320 (Demand)

3 hrs. cr.

Stage Lighting

Lighting design approached artistically. The use of lighting for atmosphere, mood and emphasis. Lighting as applied to art, television, theatre and motion pictures. Prerequisite: Th 142.

Th 331 (F, Even) 3 hrs. cr. History of the Theatre (Writing Intensive) Theatre from primitive time through the Elizabethan period. Theatre and stage architecture, scene design, acting styles, theatre management and the culture surrounding the theatrical event. Analysis of their relationship to dramatic literature.

Th 332 (S, Odd)

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History of the Theatre

Plays, playwrights and dramatic criticism from the Elizabethan and Jacobean era to contemporary theatre and the evolution of the physical theatre, staging and production practices.

Th 333 (Demand)

3 hrs. cr.

Eastern Theatre Tradition

The study of Eastern thought and culture in the discipline of theatre. All areas of design as well as acting and movement will be discussed.

Th 341 (F, Even)
Acting II

3 hrs. ci

The dynamics of analysis, rehearsal and performance of scenes from contemporary and classic plays. Emphasis on the actor's relationship to the play and to other actors. Prerequisite: Th 241.

Th 351 (F, Even)
Directing I

3 hrs. cr.

A comprehensive study of various problems confronting a stage director. Techniques and procedures for play selection, analysis and mounting a production. Scene directing. Prerequisite: Th 241.

Th 361 (F, Odd)

3 hrs. cr.

History of Costume

Survey of the garments and fabrics worn in Western cultures from Ancient Greece through the 19th Century. Emphasis is on the social and economic reasons which caused styles to change. (Recommended as prerequisite for Stage Costume Design.)

Th 362 (S, Even)

3 hrs. cr.

Stage Costume and Design

Theory and practical aspects of costume design. Emphasis on non-verbal communication of theme, character and historical period through rendered costume designs. Recommended prerequisite is History of Costume.

Th 372 (S, Odd)
Directing II

3 hrs. cr.

Study of the skills and role of a director, casting, production administration and director-actor relationship. Experience and group evaluation in directing one-act plays before departmental or public audience. Prerequisite: Th 351.

Th 422 (S, Odd)
Acting III

3 hrs. cr.

Lecture and laboratory study of physical manners and speech in relationship to various periods of theatre presentation. Prerequisite: Th 341.

Th 431 (F, Odd)

3 hrs. cr.

Creative Dramatics

Methods and techniques of teaching dramatic improvisations for young people through the exploration of various art forms appropriate for dramatic presentation with an emphasis on storytelling.

Th 441 (F, Odd)
Stage Design

3 hrs. cr.

Foundations of design. Sketching, rendering and perspective techniques. Communications between designers and directors. Prerequisite: Th 142.

Th 450 (F, S)

Advanced Lab Practicum

1-3 hrs. cr.

Advanced practical implementation of techniques learned at beginning and intermediate levels of theatre production in the areas of directing and design. Play production for public performance.

Th 498 (Demand)

3 hrs. cr.

Theatre Studies

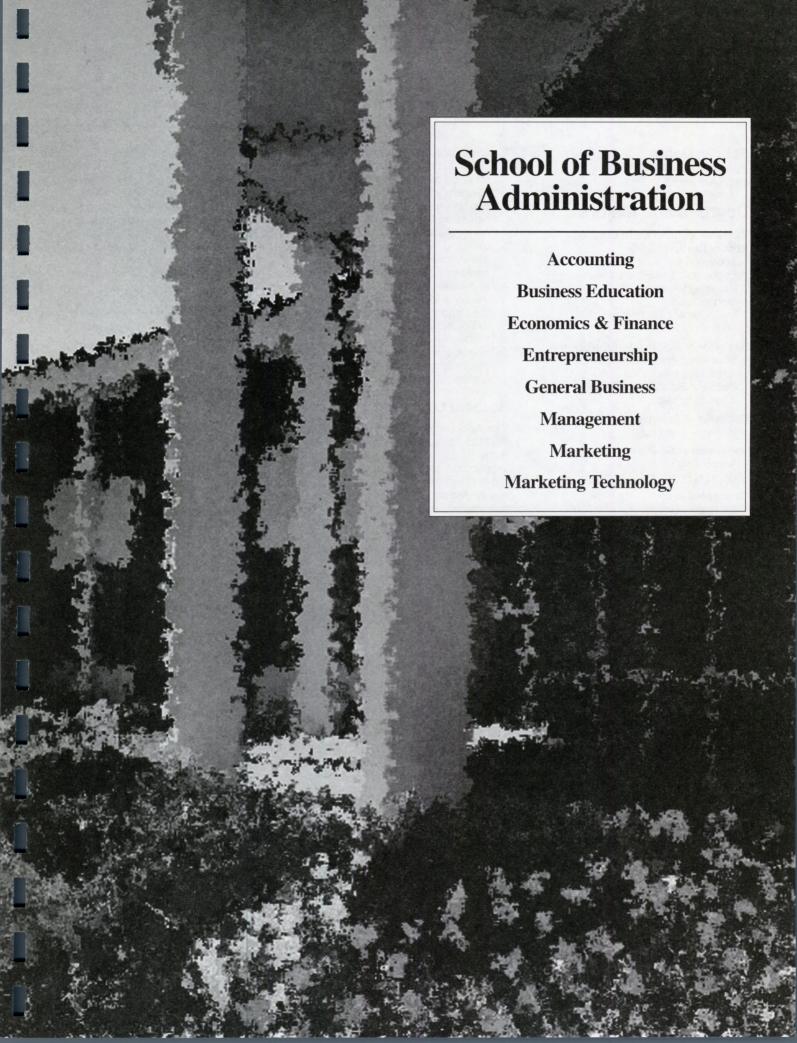
Seminar in theatre for advanced students. Topic open. Approval of department head. Prerequisite: Advanced standing in major field with a GPA of 3.0. Enrollment must be approved by adviser, department head and school dean.

Th 499 (F, S)

1-3 hrs. cr.

Independent Study in Theatre

Structured by the adviser with approval of department head. Prerequisite: Advanced standing in major field with GPA of 3.0. Enrollment must be approved by adviser, department head and school dean.



102 / Business Administration

School of Business Administration

School Dean

James M. Gray
Matthews Hall 302, 625-9319

Degrees and Majors

Bachelor of Science in Business Administration

Accounting
Economics and Finance
General Business
Management
Management Technology
Marketing

Bachelor of Science in Education

Business Education as a single teaching field Business Education as one of two teaching fields

Bachelor of Science

Management Technology

Associate of Science

Accounting General Business

Concentration

Entrepreneurship

Role

The aim of all activity in the School of Business Administration is to assist students in the development of those intellectual, personal and professional attributes which will prepare them to exercise responsibility in the complex business environment of the future. The faculty of the School of Business Administration recognizes that the pace of change in our society will quickly render vocationally oriented information and training obsolete and that the routine details and techniques of the world of work must be acquired through actual experience. The role of the School of Business Administration, therefore, is not to teach skill specific techniques or to offer training for the first job, but to provide the educational opportunity to allow students to develop familiarity with analysis, communications, leadership and interpersonal relations within the context of professional education for business administration.

Objectives

The objectives of the School of Business Adminstration are:

 to maintain a relevant curriculum which will provide the necessary managerial and administrative education for the School of Business Administration graduates:

- to prepare the School of Business Administration graduates for leadership roles by stimulating rigorous, imaginative, analytical and probing attitudes so that the graduates can express themselves competently and apply problemsolving techniques;
- to provide a faculty committed to teaching excellence, community service and research;
- to maintain facilities and equipment necessary to foster high quality education in the School of Business Administration;
- to interact with the business community to identify and serve their educational needs and to provide opportunity for professional growth for our students and faculty.

Student Organizations

The Accounting Club is open to accounting students seeking information regarding the profession and association with practicing accountants. Members may attend monthly technical meetings and social functions. Members are also encouraged to become active in one or more of the area's professional accounting organizations.

Omicron Delta Epsilon is the honorary economics fraternity open to juniors with a 3.0 overall grade point average and at least 9 hours in economics, with a 3.0 in the economics courses. The Phi Beta Lambda is based on a set of goals which includes the development of competent and aggressive business leadership, creation of more interest and understanding of American business enterprise and participation in worthy undertakings for the improvement of business and citizenship. PBL is open to all business and computer science students and serves as a vehicle for professionals.

Students in Free Enterprise (SIFE) is a non-profit corporation organized to promote the free enterprise system. The group has participated in national competitions, finishing as high as second on two different occasions.

Financial Management Association is open to all economics and finance majors and has a National Honor Society designation for those economics and finance majors who have a cummulative GPA of 3.25 and at least six hours in finance.

The Society of Human Resource Management is based on a set of goals which includes familiarizing students with personnel administration, industrial psychology and

labor relations. It is also designed to keep students up to date on new developments in the field of personnel, and to develop a nucleus of truly professional personnel administrators for the future. The group is cosponsored by the School of Business and department of psychology and networks with professionals on a monthly basis.

Small Business Development Center

The School of Business Administration, in conjunction with the Small Business Administration, has formed a Small Business Development Center which encompasses the following areas:

The Total Quality Management Resource Center

The Total Quality Management Resource Center assists area organizations in their quest for continuous improvements of products, processes and services to enhance quality while reducing cost. This objective is met through assessment activities, research, educational programs, consulting, and serving as a clearing house for materials such as books, literature, tapes and equipment.

The Southern Business and Economic Review

The Southern Business and Economic Review is published quarterly by the Bureau of Business and Economic Research within the School of Business Administration. Each issue contains local economic indicators and articles of interest to local business people. The Bureau also maintains a data bank of economic statistics which is available to local business people.

Small Business Institute

The Small Business Institute allows students to consult with small businesses that request assistance. This provides valuable experience for our senior students. They are able to apply some of the theory they have learned to "real life" situations. The Small Business Administration funds the program and there is no charge to the businesses.

Business and Economic Lecture Series

The School of Business Administration sponsors an annual lecture series. Speakers of interest to both students and local business people appear each semester. Normally they speak both during the day and the evening. J. Peter Grace and William S. Rukeyser are two of the prominent speakers who have appeared in the series.

Accounting / 103

Management Development Institute

The School of Business Administration has established a Management Development Institute to help local businesses with their training and educational needs. The Center seeks to serve those needs by developing and/or coordinating various seminars for the local businesses.

Center for Entrepreneurship

The primary purpose of the Center for Entrepreneurship is to provide relevant and practical information concerning starting and running a small business. The Center also seeks to encourage new business start-ups by providing student consultants and faculty evaluation of business plans.

Business Core Requirements

All B.S.B.A. candidates must take the following "core" courses in addition to courses required in their major:

Business Administration Core Requirements

	Semester H	our
Acct 201	Prin of Accounting I	3
Acct 202	Prin of Accounting II	3
Econ 201	Prin of Economics-Macro	3
Econ 202	Prin of Economics-Micro	3
Econ 350	Financial Management I	3
GB 301	Legal Environment of	
	Business I	3
GB 320	Business Comm	3
GB 321	Business Statistics I	3
MM 300	Prin of Marketing	3
MM 350	Prin of Management	3
MM 237	Managerial Data Proc	3
MM 452	Strategic Mgmt	3
	Business Elective*	3
Total Busin	ness Core	3

*Must be selected in consultation with adviser from 300 or 400 level courses in School of Business Administration. May not be "double counted" as part of major requirements. Mathematics - All candidates for the B.S.B.A. degree must complete Mathematics 131, Finite Mathematics, as their Core Curriculum mathematics course.

Minor in Rusiness

IVIII IOI III	Dusilless.	#
Acct 201	Prin of Accounting I	3
Acct 202	Prin of Accounting II	3
Econ 202	Prin of Economics-Micro*	3
Econ 350	Financial Management	3
MM 237	Managerial Data	
	Processing	3
MM 300	Prin of Marketing	3
MM 350	Prin of Management	3
Total for M	inor	2

*Econ 201 should be taken as a Core Curriculum requirement.

Accounting

Matthews Hall 302, 625-9319

Faculty Cunningham, Finke, Goode, Paapanen, Roark, Shaver

The emphasis in accounting leads to the B.S.B.A. degree. A concentration in accounting is also available within the A.S. degree.

The B.S.B.A. degree with the accounting major is designed to prepare the student to enter any area of the accounting profession, successfully complete the Certified Public Accountant or other professional certification examination and to enter graduate school.

Prospective accounting majors should take note of new requirements for entry into the profession. Beginning in the year 2000, the American Institute of Certified Public Accountants will require new members to have 150 semester hours of college credit including an undergraduate degree. In addition, more than 20 states now require 150 hours in order to be permitted to sit for the C.P.A. examination (including Arkansas and Kansas). As of the Fall of 1992, Missouri had not passed the 150-hour law. However, bills are before the Legislature and passage in the near future is considered highly likely. Accounting majors desiring to meet this requirement should note the "150-hour" recommended courses at the end of the B.S.B.A. suggested order of study or plan to attend graduate school.

The A.S. accounting program of study is designed to prepare the student for book-keeping tasks which are a part of the accounting function. Graduates of this program usually serve at the first level in accounting firms or private businesses.

Associate of Science with a Concentration in Accounting

Samastar Hours

	Semester	louis
	(6:00)	25-26
Accounting	Concentration	39
Acct 201	Prin of Accounting I	3
Acct 202	Prin of Accounting II	3
Acct 312	Intermediate	
	Accounting I	3
Acct 322	Intermediate	
	Accounting II	3
Acct 375	Tax Accounting I	3
GB 301	Legal Environment	
	of Business I	3
GB 320	Business Communi-	
	cations (WI)	3
Econ 201	Prin of Economics-Macro	03

Econ 202	Prin of Economics-Micro	3	
MM 237	Managerial Data		
	Processing	3	
MM 350	Prin of Management (WI) 3	
Elective sel	ected from:	3	
Acct 325	Managerial Accounting		
GB 302	Legal Environment		
	of Business II		
GB 321	Business Statistics I		
Business E	Elective		3
Total		64-6	5

Bachelor of Science in Business Administration with an Emphasis in Accounting

Semester Hor		
Core Requ	irements (p. 35)	51
	Core Requirements	39
	Business Core	
Requireme	ents (Accounting	
majors on	ly)	9
GB 322	Business Statistics II	3
Math 302	Calculus for Mgmt &	
	Social Sciences	3
MM 431	Operations Management	3
Accountin	g Major	24
Acct 310	Cost Accounting	3
Acct 312	Intermediate Accounting I	3
Acct 322	Intermediate Accounting II	3
Acct 332	Intermediate Accounting III	3
Acct 375	Tax Accounting I	3
Acct 402	Advanced Accounting	3
Acct 411	Auditing	3
	I Accounting Elective (mus	t
be chosen	with adviser approval)	3
Electives		5
		128

Suggested Order of Study

Bachelor of Science in Business Administration Major Code 0502 Accounting Emphasis

Freshman Year

CORE

CORE

[Psy 100 or Soc 110]

[HPER 101 Physical Activity] 1

104 / Business Education

First Semester Course H

Course Hours
Acct 408 Tax Accounting II

Acct 431 Advanced Auditing

GB 420 Advanced Bus Comm Econ 401 Microeconomic Analysis

Sophomor		2nd Semes	
1st Semest	er	Acct 440	Profes & Ethics in Acct 3
Acct 201	Prin of Accounting I 3	Acct 499	Independent Study in Acct
CORE	[Econ 201 Econ-Macro] 3		(to be arranged with adviser) 1
MM 237	Managerial Data Processing 3	GB 302	Legal Envir of Bus II 3
CORE	[Fine Arts (Art 110, Mus 110	Select one:	
	or Th 110)] 3	Acct 418	Tax Accounting III
CORE	[Hist 110 American History] 3	Acct 420	Accounting Theory
	15	Acct 422	Advanced Cost Accounting 3
			10
2nd Semes	ter		
Acct 202	Prin of Accounting II 3		
Econ 202	Prin of Econ-Micro 3	Associat	e of Science
CORE	[Literature (Eng 261, 262,	Major Co	
	271, 272, 281 or 282)] 3	,	
Math 302	Calc for Mgmt & Soc Sci 3	Account	ing Concentration
CORE	[Hist 120 American History] 3	Freshman	Year
	15	1st Semeste	
	ra construit a servicio de la construit de la		rin of Accounting I 3
Junior Yea	r	CORE	[Eng 101 Comp I] 3
1st Semest		CORE	[PSc 120 or Hist 110] 3
Acct 312	Intermediate Accounting I 3	CORE	[Math 30 or higher]
Acct 375	Tax Accounting I 3	CORE	[HPER 103 Lifetm Wellness]
GB 301	Legal Envir of Bus I 3		
GB 321	Business Statistics I 3	Business El	lective 3
MM 300	Prin of Marketing 3		
	15	2nd Semes	tor
		Acct 202	
2nd Semes	ter	CORE	
Acct 310	Cost Accounting 3	CORE	
Acct 322	Intermediate Accounting II 3	CORE	[Comm 100 Oral Comm] 3
GB 320	Business Comm (WI) 3	CORE	[Art 110, Mus 110, Th 110,
GB 322	Business Statistics II 3	CP 220	Literature or Phil 201] 3
MM 350	Prin of Management (WI) 3	GB 320	Business Comm (WI) 3
IVIIVI 330	15	CORE	[HPER 101 Physical Activity] 1
	15		16
Senior Yea	ır	Sophomore	e Year
1st Semest		1st Semeste	
Acct 332	Intermediate Accounting III 3	Acct 312	Intermediate Accounting I 3
Acct 411	Auditing 3	MM 237	Managerial Data Processing 3
Econ 350	Financial Management 3	GB 301	Legal Environment of Bus I 3
CORE	[International Cultural Studies	CORE	[Bio 110 or Phys 100] 4-5
	- GB 310 Intern'l Bus	CORE	[Econ 201 Econ-Macro] 3
	strongly recommended] 3	OOTIL	16-17
CORE	[Humanities & Fine Arts		10-17
	Elective] (See Core Require	2nd Semest	ter
	ments, page 35) 3	Acct 322	Intermediate Acct II 3
Upper-level	Business Elective (MM 337	Acct 375	Tax Accounting I 3
	Mgmt Infor Systems strongly	F 000	D: /=
	recommended) 3	Econ 202 MM 350	Prin of Econ-Micro 3 Prin of Management (WI) 3
	18		
	10	Dusiness El	ective (Acct 325, GB 302,
2nd Semes	ter		GB 321) 3
Acct 402	Advanced Accounting 3	[Donartman	t Becommendation
	Accounting Elective (Must be	Departmen	t Recommendation]
-ppc. level	selected with adviser approval.	For oddit	nal information and
	Internships, independent studies		nal information contact:
	and VITA will not fulfill this		e School of Business
			tthews Hall 302
MM 431		Phone: 62	5-9319
MM 452	Operations Management 3		morning manners
Electives	Strategic Management (WI) 3		
Liectives	5		
Total for B	S B A degree 129		
i otal for B.	S.B.A. degree 128		
150-Hour	Track		
Firet Comos			

3

3

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Business Education

Matthews Hall 302, 625-9319

Faculty Block, Rusley

Bachelor of Science in Education (Business Major)

The B.S.E. business major course of study prepares graduates to teach business as either a single or dual field at the secondary level.

Bachelor of Science in Education with Business as a Single Teaching Field (Plan B)

(
	Semester Firements (p. 35) courses (p.115-127)	5 30 42
Acct 201 Acct 202	Prin of Accounting I Prin of Accounting II	3
Accounting Acct 312 Acct 325 Acct 375	- Select one: Intermediate Accounting Managerial Accounting Tax Accounting	3
GB 110 GB 112 GB 301	Type/Format* Type/Elec Doc Prod* Legal Environment	3
00.00	of Business I	3
GB 312	Prin of Business Educ	3
GB 320	Business Comm (WI)	3
Econ 201 Econ 202 MM 237	Prin of Economics-Macro Prin of Economics-Micro Managerial Data	3
	Processing	3
MM 300	Prin of Marketing	3
MM 337	Management Information Systems	3
MM 350	Prin of Management (WI)	3
		129

*Students having proficiency in typewriting may ask to be tested. If advanced standing is granted in the subject, the student will substitute another course in order to meet the 42 hour requirement.

Economics and Finance /105

Bachelor of Science in Education with Business as One of Two Teaching Fields (Plan A)

	Semester H	ours
Core Curri	culum (p.35)	51
Education	courses (p. 115-127)	36
Business I	Major	30
Acct 201	Prin of Accounting I	3
Acct 202	Prin of Accounting II	3
Accounting	- Select one:	3
Acct 312	Intermediate Accounting I	39
Acct 325	Managerial Accounting	
Acct 375	Tax Accounting	
GB 110	Type/Formatting*	3
GB 112	Type/Elec Doc Prod*	3
GB 301	Legal Environment of	100
	Business I	3
GB 320	Business Comm (WI)	3
Econ 201	Prin of Economics-Macro	3
MM 237	Managerial Data	
	Processing	3
MM 337	Management Information	
	System	3

*Students having proficiency in typewriting may ask to be tested.

If advanced standing is granted in the subject, the student will substitute another course to meet the 30 hour requirement.

Suggested Order of Study

Bachelor of Science
Major Code 0838
Plan B-Single Teaching Field
Business Education

Freshman Year

1st Semester		
Course	Ho	u
CORE	[Eng 101 Comp I]	3
CORE	[Hist 110 U.S. History]	3
CORE	[Art 110, Mus 110 or Th 110]	3
CORE	[Psy 100 Gen Psychology]	3
Educ 100	Orient to Educ I	1
CORE	[HPER 103 Lifetm Wellness]	2
Psy 120	College Orientation	1
		6

2nd Semester

CORE	[Eng 102 Comp II]	1
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Hist 120 or 320]	1
CORE	[Math 131 Finite Math]	1
GB 110	Type/Format (GB 105)	1
Psy 302	Exceptional Child	2
		4

Sophomore Year

1st Semester	r	
CORE	[Econ 201 Econ-Macro]	3
Acct 201	Prin of Acct I (Math 131)	3
CORE	[Bio 101 General Biology]	4
Educ 200	Orient to Educ II	1
CORE	[Literature (Eng 261, 262,	
	271, 272, 281, 282)]	3
CORE	[HPER 101 Physical Activity]	1
Psy 310	Educational Psychology	2
	te de la companya de	7

2nd Semester

Acct 202	Prin of Acct II (Acct 201)	3
Econ 202	Prin of Economics-Micro	3
MM 237	Managerial Data Processing	3
CORE	[Phys 100]	5
CORE	[Comm 100 or 103]	3
		17

Junior Year

1st Semester		
Acct 312	Intermediate Accounting I	
OR		
Acct 325	Managerial Accounting	
OR		
Acct 375	Tax Accounting (Acct 202)	3
GB 301	Legal Environment of Bus I	1
Educ 321	Microteaching, Secondary	2
Educ 329	Ped Theo, Methods & Prac	4
Educ 423	Classroom Management	2
Psy 301	Adolescent Psychology	3
		4-

2nd Semester

CORE	[Humanities and Fine Arts]	
GB 112	Typ/Elec Doc Prod (GB 110) 3	3
GB 320	Bus Comm (WI) (Eng 102)	_
MM 300	Prin of Marketing (Econ 202)	3
Educ 422	Reading Secondary	2
	14	4

Senior Year

13t Semeste		
CORE	[International Cultural Stu]	3
GB 312	Prin of Business Educ	3
MM 337	Management Info System	3
MM 350	Prin of Management (WI)	3
	A MARINE DIO DAM TOTAL	12

2nd Semester

Semester	
Tchng Business, Secondary	2
Foundation of Educ	2
Critical Issues in Educ	2
Student Tchng Secondary	8
Measurement & Evaluation	2
	16
	Tchng Business, Secondary Foundation of Educ Critical Issues in Educ Student Tchng Secondary Measurement & Evaluation

[Department Recommendations] (Prerequisites)

For additional information contact: Mr. Jim Gray

Office: Matthews Hall 302

Phone: 625-9319

Economics and Finance

Matthews Hall 302, 625-9319

Faculty Bradshaw, R. C. Brown, Eberhardt, Jaswal, La Near, Larson, Leitle, Marion, Miller, Rawlins

The B.S.B.A. economics and finance major course of study is designed to prepare graduates for managerial positions in financial institutions, corporate research, forecasting, government and other public and private sector positions, as well as for graduate study.

Bachelor of Science in Business Administration with an Emphasis in Economics and Finance

Semester Hours	Se	mest	er	H	0	ur	S
----------------	----	------	----	---	---	----	---

128

Core Requirements (p.35)	51			
Business Core	39			
Economics and Finance Emphasis	18			
Econ 300 Money and Banking	3			
Econ 411 Investments	3			
Two of the three following:	6			
Econ 401 Microeconomic Analysis				
Econ 402 Macroeconomic Analysis				
Econ 450 Financial Management II				
Advanced Econ/Fin Electives (selectives)	cted			
in consultation with adviser from E	con/			
Fin courses numbered 300 or above) 6				
Electives	20			

Suggested Order of Study

Bachelor of Science in Business Administration Major Code 0504 Economics and Finance Emphasis

Freshman Year 1st Semester

TOL CONTIOUR	OI .	
Course		Hours
CORE	[Eng 101 Comp 1]	3
CORE	[Math 131 Finite Math]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc] 3
CORE	[Bio 101 General Biology]	4
CORE	[HPER 103 Lifetm Wellnes	ss] 2
Psy 120	College Orientation	1
,		16

2nd Semester

Zilu dellieste	71	
CORE	[Eng 102 Comp II]	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Oral Comm (Comm 100)]	3
CORE	[Psy 100 or Soc 110]	3
CORE	[HPER 101 Physical Activity]	1
		5

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Sophomore		
1st Semeste Acct 201 CORE MM 237 CORE	Prin of Accounting I [Econ 201 Econ-Macro] Managerial Data Processing [Fine Arts (Art 110, Mus 110 or Th 110)]	3 3 3
CORE	[Hist 110 American History]	3 15
2nd Semest Acct 202	Prin of Accounting II	3
Econ 202 CORE	Prin of Econ-Micro [Literature (Eng 261, 262, 271, 272, 281 or 282)]	3
CORE Elective	[Hist 120 American History]	3 3 15
Junior Year		
1st Semeste Econ 300 Econ 350	Money and Banking Financial Management I	3
GB 301 MM 300 MM 350	Legal Environment of Bus I Prin of Marketing Prin of Management (WI)	3 3 15
2nd Semest		
GB 320 GB 321 Econ 402 OR	Business Comm (WI) Business Statistics I Macroeconmics Analysis	3
Econ 450	Financial Management II usiness Elective (must be selected in consultation with faculty adviser from courses numbered 300 or above within the School of Business	3
Elective	Administration)	3
Elective	n 100 malayan	3 18
Senior Year		
Econ 402 OR	Macroeconmics Analysis	
Econ 450 Econ 411 Advanced E	Financial Management II Investments lective in Econ (selected in consultation with faculty adviser from courses num-	3 3
CORE	bered 300 or above) [International Cultural Stu]	3
CORE	(GB 310 strongly recommended [Hum & Fine Arts Elective] (See Core Requirements, p. 35)	3
Electives		6
2nd Semeste		10
Econ	Electives	13
MM452	Strategic Management (WI)	3
	12	28

[Department Recommendations]

For additional information contact: Dean of the School of Business Office: Matthews Hall 302 Phone: 625-9319

Entrepreneurship

Matthews Hall 302, 625-9319

Faculty Bradshaw, Kleindl

A concentration in entrepreneurship is offered for all students, regardless of major, to enhance success of small business startups. This concentration prepares the students to start their own businesses.

Requirements for a Concentration in Entrepreneurship:

		pronouromp.	
		Semester H	lour
Ent	201	Entrepreneurship - Dev-	
		eloping a Business Plan	1
Ent	202	Entrepreneurship -	
		Business Opportunities	1
Ent	203	Entrepreneurship -	
		Legal Aspects	1
Ent	204	Entrepreneurial Financing	
		and Information -	
		Initial Capitalization	1
Ent	205	Entrepreneurial Financing	
		and Information - Cash	
	000	Flow Budgeting	1
Ent	206	Entrepreneurial Financing	
		and Information - Micro-	
Ent	007	computer Applications	1
⊏III.	207	Accounting for the New Venture - Procedures	4
Ent	208	Accounting for the New	1
LIII	200	Venture - Records	1
Ent	200	Accounting for the New	1
Line	203	Venture - Taxation	1
Ent	210	Managing the Small	
		Business - The Manage-	
		ment Process	1
Ent	211	Managing the Small	
		Business -Strategic Plann	ina
		and Organizing	1
Ent :	212	Managing the Small	
		Business - Human	
		Relations	1
Ent :	213	Marketing the Small	
		Business - Promotion	1
Ent :	214	Marketing the Small	
_	10.00	Business - Pricing	1
Ent :	215	Marketing the Small	
		Business - Merchandise/	
		Inventory	1

General Business

Matthews Hall 302, 625-9319

Faculty Block, Bradshaw, Cragin, Finke, Goode, Johnson, Kleindl, Larson, Leitle, Miller, Rusley, Vernon, Tiede

The B.S.B.A. degree program in general business is intended to give the broadest possible background to the graduate and to prepare the graduate for managerial positions in the public and private sectors. The A.S. degree program prepares the graduate for first line supervisory and managerial duties.

Bachelor of Science in Business Administration with an Emphasis in General Business

	Semester H	Hours
Core Req	uirements (p. 35)	51
Business	Core (p. 115-127)	39
General E	Business Emphasis:	18
Acct 325	9	3
Econ	(selected from 300, 302,	
	312, 322, 330, 401, 411,	
	412, 415)	3
MM	(selected from 352, 410,	
	412, 431, 441)	3
MM	(selected from 312, 321,	
	401, 412, 432, 470)	3
MM 337	Management Information	
	Systems	3
Advanced	Business Elective (must be)
	selected with adviser	
	consultation & approval)	3
Electives		20
		128

Associate of Science in General Business

	Semester	Hours		
Core Requ	irements (p. 36)	25-26		
General B	usiness Concentration	27		
Acct 201	Prin of Accounting I	3		
Acct 202	Prin of Accounting II	3		
Econ 201	Prin of Economics-Macro	3		
Econ 202	Prin of Economics-Micro	3		
GB 301	Legal Environment			
	of Business I	3		
GB 302	Legal Environment			
	of Business II	3		
MM 237	Managerial Data			
	Processing	3		
MM 300	Prin of Marketing	3		
MM 350	Prin of Management (WI)			
Business Electives (must be selected				
with appro	oval of faculty adviser)	12		
		64-65		

Management / 107

Sugge	sted Order of Study	
in Busin Major Co	or of Science less Administration ode 0501 Business Emphasis	
Freshma		
1st Seme Course CORE CORE CORE CORE CORE CORE Psy 120		3 3 3 4 2 1
2nd Semes CORE CORE CORE CORE CORE	ster [Eng 102 Comp I] [Phys 100 Fund of Phys Sci] [Comm 100 Oral Comm] [Pys 100 or Soc 110] [HPER 101 Physical Activity]	3 5 3 3 1 15
Sophomo		
1st Semes Acct 201 CORE MM 237 CORE	Prin of Acct I [Econ 201 Economics-Macro] Managerial Data Processing [Fine Arts (Art 110, Mus 110 or Th 110)]	3 3 3
CORE	[Hist 110 American History]	3 15
2nd Semes Acct 202 Econ 202 CORE	Prin of Acct II Economics-Macro [Literature (Eng 261, 262, 271, 272, 281 or 282)]	3 3 3
CORE Elective	[Hist 120 American History]	3 3
Junior Yea 1st Semes Acct 325 GB 301 GB 320 MM 300 MM 337		3 3 3 3 15
2nd Semes Advanced	Elective in Econ/Fin (must be selected from Econ 300, 302, 312, 322, 330, 401, 402, 411,	
Advanced	412 or 415) Elective in Management (must be selected from MM 352, 354 410, 412, 431, or 441)	3
GB 321 Advanced	Business Statistics Business Elective (must be selected in consultation with adviser from courses numbered 300 or above within the School of Business	3
MM 350 Electives	Administration) Prin of Management (WI)	3 3

Senior Yea		0
Econ 350	selected from MM 312, 321, 401, 412, 432 or 470) Financial Management I	3 3
CORE	[International Cultural Stu] (GB 310 Strongly recommende	ad)
CORE	[Humanities and Fine Arts] (See Core Requirements, p. 35)	3
Electives	μ. 33)	6
2nd Semes Advanced	ster Business Elective (must be selected in consultation with faculty adviser from courses	
	numbered 300 or above with the School of Business	nin
MM 452 Electives	Administration) Strategic Management (WI)	3 10 16 128
Associa	te of Science	

Associate of Science
Major Code 5001
General Business Concentration

Freshman		
1st Semest		
Acct 201	Prin of Accounting I	3
CORE	[Eng 101 Comp I]	3
MM 237	Managerial Data Processing	3
CORE	[Psy 100 or Soc 110]	3
CORE	[Math (30 or above)]	3
CORE	[HPER 103 Lifetm Wellness]	2
		17
2nd Semes	ster	

Zilu Seilles	OLGI	
Acct 202	Prin of Accounting II	3
CORE	[Econ 201 Economics-Macro]	3
CORE	[Hist 110 or PSc 120]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Art 110, Mus 110, Th 110,	
	Literature or Phil 201)]	3
CORE	[HPER 101 Physical Activity]	
		16

Son	hom	ore	Year
Soh	HOII	ore	real

1st Semes	ter	
Business E	Electives (must be selected	
	with adviser approval)	6
GB 301	Legal Environment of Bus I	3
Econ 202	Prin of Economics-Micro	3
MM 350	Prin of Management (WI)	3
		15
2nd Semes	ster	
GB 302	Legal Environment of Rus II	3

Zilu Seill	ester	
GB 302	Legal Environment of Bus	11 3
MM 300	Prin of Marketing	3
Business	Electives (must be selected	
	with adviser approval)	6
CORE	[Bio 101 or Phys 100]	4-5

[Department Recommendations]

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For additional information contact: Dean of the School of Business Office: Matthews Hall 302 Phone: 625-9319

Management

Matthews Hall 302, 625-9319

Faculty Block, Bradshaw, Cragin, Gray, Johnson, Marion, Miller, Rozell, Stevens, Vernon

The B.S.B.A. degree with an emphasis in management is designed to prepare the graduate for entry level positions of responsibility in both the private and public sectors.

Bachelor of Science in Business Administration with an Emphasis in Management

	Semester F	Hours
Core Requ	uirements (p.35)	51
Business	Core Requirement	39
Managem	ent Emphasis	18
Acct 325	Managerial Acct	3
MM 337	Management Information	
	Systems	3
MM 352	Human Resourse Mgmt	3
MM 431	Operations	3
MM 441	Organizational Behavior	3
Advanced	Elective (MM 354, 410,	
	411 or 412 strongly	
	recommended)	3
Electives		20
		128

Suggested Order of Study

Bachelor of Science in Business Administration Major Code 0507 Management Emphasis

Freshman Year 1st Semester CORE [Eng 101 Comp I] 3 CORE [Math 131 Finite Math] 3 CORE [PSc 120 Gov't: U.S./Sta/Loc] 3 CORE [Bio 101 General Biology] 4

Psy 120 College Orientation

CORE

		16
2nd Seme	ester	
CORE	[Eng 102 Comp II]	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Comm 100 or 103 Comm]	3
CORE	[Pys 100 or Soc 110]	3
CORE	[HPER 101 Physical Activity]	1
		15

[HPER 103 Lifetm Wellness]

108 / Marketing, Management Technology

Acct 207 Prin of Acct I CORE [End Arts	2nd Semester Acct 202 Prin of Acct II
CORE Econ 201 Econ-Macro 3 Matthews Hall 302, 625-9319 CoRE Cor	3 Marketing Econ 202 Prin of Econ-Micro
MM 237 Managerial Data Processing 3 (CORE [File Arts (Art 110, Mus 110 or Th 110)] 3 (Hist 110 American History) 4 (Hist 110 American History) 4 (Hist 110 American History) 5 (Hist 110 American History) 5 (Hist 110 American History) 5 (Hist 110 American History) 6 (Hist 110 American History) 7 (Hist 110 American History) 7 (Hist 110 American History) 8 (Hist 110 American History) 9 (History) 9 (Hist	
CORE Fine Arts (Art 110, Mus 110 or Th 110) CORE Core Th 110 Faculty Blades, Bradshaw, Johnson, Kleindl, Marion, Miller Faculty Facul	
CORE First (Not 110, Not 110) 3 15 15 16 16 16 16 16 16	
CORE [Hist 110 American History] 3 15	10, Mus 110
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1st Semester already receive	already received an associate de
to additional mornation contact. Act 201 Fill of Act 1	tochnical field or other tochnical p
	usiness CORE [Econ 201 Econ-Macro] 3 technical field or other technical p
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or Th 110)]

[Hist 110 American History]

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CORE

2nd Semes Acct 202 Econ 202 CORE	Prin of Acct II Prin of Econ-Micro [Literature (Eng 261, 262,	3 3
CORE Elective	271, 272, 281 or 282)] [Hist 120 American History]	3 3 15
Junior Yea 1st Semes GB 301 GB 321 MM 300 MM 350 Elective		3 3 3 3 3
2nd Semes GB 320 MM 312 MM 321 Electives	Business Comm (WI) Retailing Salesmanship (must be selected in consultation with adviser from courses numbered 300 or above within the School of Business Administration)	3 3 3 9 18
Senior Yes 1st Semes MM 401 MM 412 CORE CORE) 3
2nd Semes MM 432 MM 452 MM 470 Electives	Consumer Behavior Strategic Management (WI) Marketing Research	3 3 8 17 129
[Departme	nt Recommendations]	
For additi	onal information contact:	

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management technology major tudy is for students who have eived an associate degree in a ld or other technical preparation y the adviser and school dean and who desire to obtain the necessary business skills to become technical supervisors or first line managers. Students must apply for admission to the program in the first semester of the junior year.

Courses • Accounting / 109

Bachelor of Science in Management Technology

	Semester H	lours
Core Curr	riculum (p.35)	51
Managem	ent Technology Major	42
(1) Requir	ed:	
Acct 201	Prin of Accounting I	3
Acct 202	Prin of Accounting II	3
GB 301	Legal Environment	
	of Business I	3
GB 302	Legal Environment	
	of Business II	3
GB 320	Business Comm (WI)	3
Econ 201	Prin of Economics-Macro	3
Econ 202	Prin of Economics-Micro	3 3 3 3 3
Econ 350	Financial Management	3
MM 237	Managerial Data	
	Processing*	3
MM 300	Prin of Marketing	3 3 3
MM 350	Prin of Management (WI)	3
MM 431	Operations Management	3
		33
	dditional courses selected fr	om:
Acct 325	Managerial Accounting	
GB 321	Business Statistics I	
MM 352	Human Resource	
	Management	
MM 401	Promotional Strategy	
MM 412	Marketing Management	
MM 452	Strategic Management (WI)	9

*Students obtaining an A.S. in computer science may not choose MM 237 as a required elective.

Electives (Includes courses already

taken at associate level)

Management Technology (CIM Emphasis)

Matthews Hall 302, 625-9319

The School of Business Administration, in cooperation with the School of Technology, offers the bachelor of science in management technology with emphasis in computer integrated manufacturing (CIM).

The emphasis area is designed to recognize the revolution in the management of materials, production processes, personnel and information which has taken place in the last decade. This program takes advantage of the existing excellence Missouri Southern has achieved in the CADD and CAM areas and combines it with the latest advances in the business area as presented by course work in the School of Business Administration.

Students who complete this combination of courses will have been exposed to the new "World Class Management Technology" which will characterize manufacturing competition well into the next century.

Bachelor of Science in Management Technology (CIM Emphasis)

	Semester He	ours
Core Curri	culum (p.35)	51
Manageme	ent Technology	36
Acct 201	Prin of Accounting I	3
Acct 202	Prin of Accounting II	3
Acct 325	Managerial Accounting	3
GB 320	Business Commun-	
	ications (WI)	3
GB 321	Business Statistics	3
GB 405	Statistical Quality Control	3
Econ 202	Prin of Economics-Micro	3
(Assume E	con 201 taken in General C	core)
MM 300	Prin of Marketing	3
MM 337	Management Information	
	Systems	3
MM 350		3
MM 354	Total Quality Management	3
MM 431	Operations Management	3
		36

CADD and CAM specialization-School of Technology 40 127

For additional information contact: Dean of School of Business Administration

Office: Matthews Hall 302

Phone: 625-9319

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Students should consult the Dean of the School of Technology at the earliest possible date in order to incorporate the correct sequence into the appropriate associate of science degree program.

Course Descriptions

Accounting (Acct)

Acct 201 (F, S)

3 hrs. cr.

Principles of Accounting I

Fundamental principles of accounting as applied to modern business practice. Study of the complete accounting cycle and analysis of balance sheets and income statements. Emphasis on a single owner business. Prerequisite or corequisite: Math 131.

Acct 202 (F, S)

3 hrs. cr.

Principles of Accounting II

A continuation of Accounting 201 with an emphasis on corporations and partnerships and cost/managerial accounting principles. Prerequisite: Acct 201.

Acct 310 (F, S)

3 hrs. cr.

Cost Accounting

Study of accounting cost systems providing information generation for managerial planning and control. Special emphasis on product and process cost systems as applied to industrial enterprises. Prerequisites: Acct 202, MM 237

Acct 312 (F, S)

3 hrs. cr.

Intermediate Accounting I

First of two courses that comprehensively cover financial accounting for business enterprises (with emphasis on the corporation). The course is organized in three areas: (1) environment of financial accounting and basic theory underlying financial accounting; (2) accounting process from transaction analysis to financial statements; (3) accounting for assets. Prerequisites: Acct 202, MM 237.

Acct 322 (F, S)

3 hrs. cr.

Intermediate Accounting II

Second of two courses that comprehensively cover financial accounting for business enterprises (with emphasis on the corporation). Organized in three major areas: (1) accounting for liabilities and long-term investments; (2) shareholders' equity and earnings per share; (3) financial statement reporting and analysis. Prerequisite: Acct 312.

Acct 325 (F, S)

3 hrs. cr.

Managerial Accounting

Accounting as a tool for the process of planning, controlling and decision making. Emphasis on where accounting data is obtained, what kind of information is needed and how it is used in the management process. This course may not be taken by the accounting major to satisfy accounting core requirements. Prerequisite: Acct 202.

Acct 332 (F, S)

3 hrs. cr.

Intermediate Accounting III

Third of three courses that comprehensively cover financial accounting concepts and standards for business enterprises (with emphasis on the corporation). Covers the following areas: income taxes, post-retirement benefits, leases, cash flows, earnings per share, accounting changes and errors, financial reporting/analysis and accounting for changes in prices. Prerequisite: Acct 322.

110 / Courses • Economics and Finance

Acct 375 (F, S)

3 hrs. cr.

Tax Accounting I

Procedures for reporting federal income taxes with emphasis on income and deductions for individuals. Practice in preparing federal income tax returns. Prerequisite: Acct 202 or permission/ and MM 237.

Acct 402 (F, S)

3 hrs. cr.

Advanced Accounting

Application of accounting principles of partnerships, branch accounting, business combinations, consolidated statements, segment reporting, reporting by multinational companies, bankruptcy and corporate reorganization, estates and trusts. Prerequisite: Acct 322

Acct 408 (Demand)

3 hrs. cr.

Tax Accounting II

Procedures for reporting federal income taxes with emphasis on corporations, partnerships, estates and trusts. Practice in preparing federal income tax returns of these business entities. Prerequisite: Acct 375.

Acct 411 (F, S)

3 hrs. cr.

Auditing

Overview of the certified public accounting profession with special attention to auditing standards, professional ethics, the legal liability inherent in the attest function, the study and evaluation of internal control, the nature of evidence, the growing use of statistical sampling, the impact of electronic data processing and performing an audit. Prerequisite: Acct 322.

Acct 412 (Demand)

3 hrs. cr.

CPA Problems

Preparation for the Uniform Certified Public Accountant Examination. Includes methods of studying for the examination, lectures and problem solving exercises and a review of appropriate theoretical and technical pronouncements. Prerequisites: 21 hours of accounting including Acct 411 (Auditing) or senior standing AND permission of instructor.

Acct 418 (Demand)

3 hrs. cr.

Tax Accounting III

Procedures for reporting federal income taxes with emphasis on family tax planning, international tax and multi-state tax reporting. In addition, tax research procedures will be used to integrate tax topics examined in Tax Accounting

I and Tax Accounting II. Prerequisite: Acct 375.

Acct 420 (Demand)

3 hrs. cr.

Accounting Theory

Study of the theory of income, asset valuation and history of accounting thought. Critical discussion of the authoritative pronouncements of the Financial Accounting Standards Board. Provides a coherent set of logical principles that form the general frame of reference for the evaluation and development of sound accounting principles. Prerequisite: Acct 322.

3 hrs. cr. **Governmental and Nonprofit Accounting**

Study of accounting principles, standards and procedures that apply to governmental entities. Primary emphasis is accounting for municipalities. Provides background for studying accounting systems of college and universities, hospitals and other nonprofit entities. Prerequisite: Acct

Acct 422 (Demand)

3 hrs. cr.

Advanced Cost Accounting

Advanced study in decision models and cost information, system choice, strategy and management control. Special emphasis on total quality management and time related management control initiatives. Prerequisite: Acct 310.

Acct 431 (Demand)

3 hrs. cr.

Advanced Auditing

An integration of auditing concepts from Auditing I emphasizing a collaborative learning style relying on numerous case exercises. In addition, other specialized audit reports will be examined including prospective financial statements and compilation and review engagements. Finally, internal, operational and governmental audits will be examined. Prerequisite: Acct 411.

Acct 440 (Demand)

3 hrs. cr.

Professionalism and Ethics in Accounting

A comprehensive examination of the ethical issues that may confront the student during their professional career. Provides a decision model for evaluating alternative courses of action when such dilemmas are encountered.

Acct 491 (Demand)

1-8 hrs. cr.

Internship in Public Accounting

Selected senior accounting students serve an internship of approximately 60 work hours per credit hour earned as junior accountants on the staff of practicing certified public accountants and/or private industry. Supervised by faculty. Oral and written reports required. Prerequisites: Acct 322, 401, 411 and/or consent of the internship committee. (Not more than 3 hrs. per semes-

Acct 498 (Demand)

1-3 hrs. cr.

Seminar in Accounting

For upper division accounting or related majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission. Seminars offered in the past include Advanced Auditing and Advanced Cost.

Acct 499 (Demand)

Independent Study in Accounting

Individually directed readings, research and discussion in selected areas of accounting for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisite: Permission and a minimum 3.0 GPA.

Economics and Finance (Econ)

Econ 180 (F. S)

The American Economic System

A core course on the goals, organization and operation of the U.S. economy. Topics include: scarcity and choice; the role of profits, savings, investment and competition as a pricing mechanism in the allocation of resources: the economic functions of government including fiscal and monetary policy tools used for macroeconomic stabilization; limitations of the market system; other types of economic systems; industrial organization of America's contemporary capitalistic economy including the activities of the business firm; and the rationale for international trade and the effects of trade barriers. Not for business majors or for those who have taken Econ 201 or 202.

Econ 201 (F, S)

3 hrs. cr.

Principles of Economics (Macro)

A basic course that explains the organization, operation and goals of the U.S. economic system with emphasis on basic principles and concepts; measurement, determination and stabilization of national income; unemployment and inflation; the role of money and monetary policy; international finance; and current economic problems. Prerequisites: Sophomore standing or permission, Math 130 or above.

Econ 202 (F, S)

3 hrs. cr.

Principles of Economics (Micro)

A continuation of economic principles with emphasis on the theory of price determination and income distribution, with particular attention to the nature and application of those bearing on decision making within a household, firm or industry; cost and revenue implications of various product and factor market structures; and international trade. Prerequisite: Sophomore standing or permission, Math 130 or above.

Econ 300 (F, S)

Money and Banking

The nature, need, functions, role, creation and destruction of money and credit; financial institutions and their functions with special emphasis on the commercial banking system and the Federal Reserve system; introduction to monetary theory and policy; international aspects of money and monetary policy. Prerequisites: Econ 201 and

Econ 302 (Demand)

3 hrs. cr.

Economic Growth and Development

The meaning of economic growth and development, the problems associated with measurement and comparisons of economic growth between more developed and less developed countries, the study of changes that take place in the course of growth, the factors that contribute or hinder growth, economic growth theories and models, policy considerations and the international aspects of economic growth. Prerequisites: Econ 201 and 202.

Courses • General Business / 111

Econ 312 (Demand)
Economic Resources

3 hrs. cr.

Allocation of resources in order to satisfy human wants and desires through the use of economic principles and concepts. Both micro and macro principles used as well as functional concepts of resources, trends in resource development and utilization and an appraisal of resource poten-

Econ 330 (Demand)

3 hrs. cr.

Principles of Insurance
Survey of the fundamentals of insurance including risk management, interpretation of policies, property insurance, liability insurance, health insurance and life insurance. Prerequisite: Econ

tials. Prerequisites: Econ 201 and 202.

201 and 202.

Econ 350 (F, S)

3 hrs. cr.

Financial Management I

Study of the financial operating environment and financial analyses; risk and valuation, time value of money, capital budgeting, cost of capital and leverage, working capital management and dividend policy. Prerequisites: Econ 201 and 202, Acct 202, MM 237.

Econ 401 (F)

3 hrs. cr.

Microeconomic Analysis

The price system and resource allocation through a system of markets and prices; price and output determination in perfect and imperfect markets; resource markets and income determination. Prerequisites: Econ 201 and 202.

Econ 402 (S)

3 hrs. cr.

3 hrs. cr.

Macroeconomic Analysis

National income determination with various macroeconomic models; fiscal and monetary policy; international linkages; consumption and investment; trade-offs between inflation and unemployment. Prerequisite: Econ 300.

Econ 411 (F)

Investments

Principles underlying investment analysis and policy; salient characteristics of governmental and corporate securities; policies of companies and investing institutions; relations of investment policy to money markets and business fluctuations; security price-making forces. Prerequisite: Econ 350.

Econ 412 (Demand)

3 hrs. cr.

Urban and Regional Economics

Introduction to the application of economic principles in the study of urban and regional economic environment. Analysis of spatial price theory, transportation costs, the law of markets, location theory and the spatial distribution of activities, economic base theory input-output technique, central place theory, land use, regional growth, migration, regional policy objectives and current urban problems. Prerequisites: Econ 201 and 202.

Econ 415 (Demand)
Financial Institutions

3 hrs. cr.

A broad introduction to the operation, mechanics and structure of the financial system of the U.S. Emphasis on the major institutions, including the Federal Reserve System, commercial banks and savings institutions and on the primary markets (money and capital) that make up the system of intermediation of savings into investment.

Econ 420 (Demand) Security Analysis 3 hrs. cr.

A broad introduction to basic stock selection using "fundamental analysis whereby "over" and "under" valued stocks are to be identified. The class will construct a common stock portfolio of 10 to 50 stocks. Other topics covered will include; basic schools of investment thought (EMH, fundamental, technical diversification, quality of earnings and factors affecting equity ownership.

Econ 450 (Demand)

3 hrs. c

Financial Management II

Follows Financial Management I and covers topics not covered in the first course such as: financial planning, capital budgeting under constraints of mutual exclusiveness and capital rationing, leverage (both operating and financial), debt financing, common stock (including dividend policy), preferred stock, leasing, mergers, LBO's, and international finance. Prerequisite: Econ 350

Econ 498 (Demand)

1-3 hrs.

Seminar in Economics and Finance

Seminar for upper division majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission. Examples of seminars offered in the past are: 498-Seminar in International Economics 498-Seminar in Business Cycles 498-Seminar in Public Finance

Econ 499 (Demand)

1-3 hrs. cr.

Independent Study in Economics-Finance Individually directed readings, research and discussions in selected areas of economics and finance for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Pre-

General Business (GB)

requisites: Permission and 3.0 GPA.

GB 101 (F, S)

3 hrs. cr.

Introduction to Business

Modern American business, including a study of the capitalistic system, ownership and organization, management problems, marketing, finance, law and taxation. Not available for credit for those with more than 6 hrs. of business.

GB 105 (F)

3 hrs. cr.

Typewriting/Keyboarding

Emphasis on learning to manipulate the keyboard efficiently, stressing the development of both speed and accuracy so the student will acquire a personally useful skill. A few simple letter styles are taught as well as manuscript style and basic tabulation. No credit given to students with one year of high school typewriting. GB 110 (F, S)

3 hrs. cr.

Typewriting/Formatting

A business communications typing course. Covers all styles of business letters, technical and statistical reports, tables and employment communications. Prerequisite: GB 105 or a good knowledge of the keyboard.

GB 112 (S)

3 hrs. cr.

Typewriting/Electronic Document Production Production of all types of letters, reports, business forms, tables and legal forms based on realistic office job simulations. Prerequisite: GB 110 or equivalent.

GB 250 (Demand)

3 hrs. cr.

Word Processing Concepts/Applications
Introduction to the total concept of word processing as it relates to administrative services and machine technology in the modern business organization. Prerequisite: GB 110 Typewriting.

GB 301 (F, S)

3 hrs. cr.

Legal Environment of Business I

Common law principles and statutes, particularly the Uniform Commercial Code, as they relate to American business. Includes the court systems and procedures, contracts, personal property and bailments, sales and commercial paper. Special emphasis on Missouri case-law and statutes.

GB 302 (F, S)

3 hrs. cr.

Legal Environment of Business II

Common law principles and statutes, particularly the Uniform Commercial Code, as they relate to American business. Brief overview of criminal law and tort law, government control and regulation, secured transactions, insurance, bankruptcy, agency and employment, partnerships, corporations, real property and estates. Prerequisite: Junior standing.

GB 310 (F, S)

International Business

3 hrs. cr.

Introduction to the intricacies and complexities of international trade and business. The course provides an overview of the international organizations and the effects of the foreign environment on international business. The course will focus on cultural differences; theories of international trade and economic development; international finance; marketing internationally and practical applications of starting and maintaining international business relationships. Prerequisites: Econ 180 or Econ 201.

GB 312 (F)

3 hrs. cr.

Principles of Business Education
Fundamentals of business education including

curriculum, trends, equipment, materials, professional organizations and vocational programs. For business education majors only.

Educ 336 (S)

Teaching Business in Secondary Schools (See Educ 336)

GB 320 (F, S)

3 hrs. cr.

Business Communication (Writing Intensive)
Principles of writing effective letters, memos and
reports to solve real-world situations. Emphasis
on contemporary issues and the employment
process. Prerequisites: 6 hrs. English Comp or
permission of instructor.

112 / Courses • Marketing and Management

3 hrs. cr.

Business Statistics I

Methods of collection, analysis, interpretation and presentation of data related to business. Topics include frequency distribution, measures of central tendencies and dispersion, regression and correlation analysis, probability concepts, sampling distributions, estimation procedures and hypothesis testing. Computer statistical packages will be utilized in analysis and application of problems. Prerequisite: Math 130, 131 or higher, MM 237

GB 322 (S)

3 hrs. cr.

Business Statistics II

Methods of statistical analysis relating to business decision making and research in business and economics. Emphasizes sampling theory, parametric test of hypothesis, analysis of variance, nonparametric test of hypothesis, statistical quality control and other selected statistical techniques. Computer statistical packages will be utilized in analysis and application of problems. Prerequisite: GB 321.

GB 405 (Demand)

3 hrs. cr.

Statistical Quality Control

Impact of foreign competition on American industry and need for quality productivity and management improvement. Attention to the Deming management principles and statistical and quantitative methods used by major industries. Prerequisites: GB 321 or consent of instructor.

GB 498 (Demand)

1-3 hrs. cr.

Seminar in General Business

For upper division general business or related majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission. Seminar topics offered in the past include office machines, career orientation and human relations.

GB 499 (Demand)

1-3 hrs. cr.

Independent Study in General Business

Individually directed readings, research and discussions in selected areas of general business for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisites: Permission and 3.0 GPA

Marketing and Management (MM)

3 hrs. cr.

Managerial Data Processing

Principles of information processing in the business environment. Covers components of personal and business information systems and introduction to DOS and industry standard application software packages (i.e. word processing and spreadsheet). Includes hands-on use of microcomputers.

MM 300 (F. S)

3 hrs. cr.

Principles of Marketing

Survey of major marketing methods, institutions and practices. Retailing, wholesaling, distribution channels, marketing legislation, advertising, marketing research and marketing cost are treated from the standpoint of consumers, middlemen and manufacturers. Prerequisite: Econ 202.

MM 312 (F) Retailing

Principles of successful retail management, including managing retail operations, administration and control, location analysis, merchandising, promotion and review of the retail environment; with analytic and research methods applicable to retail problems. Prerequisite: MM 300.

MM 321 (F) Salesmanship

Principles and methods of effective personal and industrial selling. Stresses practical aspects through actual sales presentation by the students who are videotaped and critiqued according to

basic selling principles. Prerequisite: MM 300.

MM 337 (F, S)

3 hrs. cr.

Management Information Systems

Familiarizes business students with management information systems, including proper selection of software and hardware components. Prerequisite: MM 237 or CIS 115 and 120.

MM 350 (F, S)

Principles of Management (Writing Intensive)

A study of the planning, organizing, leading and controlling functions of management including global, social responsibility and ethical management challenges. Prerequisite: Junior standing.

MM 352 (F, S)

3 hrs. cr.

Human Resource Management

Principles and practices of management with emphasis on the human factors, including procurement, development and maintenance of an effective work force. Prerequisite: MM 350 or consent of instructor.

MM 354 (F, S)

3 hrs. cr.

Total Quality Management

Total Quality Management (TQM) is an overview of an evolving philosophy for continuous improvement of products, process and services to enhance quality while reducing costs. It is a management/technical/cultural approach to the integration of all systems and processes of an enterprise to achieve "customer" satisfaction. Prerequisite: MM 350, GB 321 or consent of instruc-

MM 401 (S)

3 hrs. cr.

Promotional Strategy

Description of fundamental advertising and promotional principles and their application in mass marketing. Analysis of advertising media, the preparation of advertising and formulation of campaigns. Prerequisite: MM 300.

3 hrs. cr.

Small Business Management Practicum

A practical course in solving real problems in an actual business environment. Students provide counseling to small business firms through cases referred by the Small Business Administration. Course may be repeated for a total of six hours of credit. Prerequisite: Second semester junior or senior standing in business administration and permission of instructor. Application for admission to the course is required. Formerly GB 410.

MM 411 (Demand)

Labor Law

Significant legislation and the accompanying case decisions which have a major impact on labor/ management relations. Primary emphasis on the Labor-Management Relations Act, as amended, with special attention to establishment of the bargaining unit and unfair labor practices of both labor and management. Secondary emphasis on Fair Employment practices. Prerequisite: Junior standing. Formerly GB 411.

MM 412 (F)

3 hrs. cr.

Marketing Management

Managerial aspects of marketing: problems involved in goal setting, planning and strategies as they apply to product policy, pricing objectives, promotional objectives, distribution policy and marketing intelligence. Prerequisites: MM 300 and MM 350.

MM 431 (F)

3 hrs. cr.

Operations Management

Principles and decision analysis related to the effective utilization of the factors of production and operations in manufacturing activities for both intermittent and continuous systems. The study of operations management, analytical models and methods, facilities design and the use of computer modeling for control systems for effective production operations. Prerequisite: GB 321, Business Statistics I.

MM 432 (Demand)

3 hrs. cr.

Consumer Behavior

An interdisciplinary approach to the analysis and interpretation of consumer buying habits and motives and the resultant purchase of goods and services. The purchaser's psychological, economic and socio-cultural actions and reactions are stressed. Prerequisite: MM 300.

MM 441 (F, S)

3 hrs. cr.

Organizational Behavior

A study of the organization, human behavior in organizational settings and the interface between them. Prerequisite: MM 350, Senior standing.

MM 450 (Demand)

3 hrs. cr.

The Psychology of Human Resource

Traditional areas of human resource management/organizational psychology are addressed, including group interaction, communication, attitudes, interviewing, compensation and benefits and legal environment. An interdisciplinary approach will be taken. The contents will be presented using both theory and experimental meth-

Courses • Marketing and Management / 113

MM 452 (F, S) 3 hrs. cr. Strategic Management (Writing Intensive) A capstone course integrating business disciplines with formal analyses of the organization's macro and industry environment; mission and goals; and strategy formulation, implementation and control using the case approach method. Prerequisites: Senior standing, MM 300, MM 350, Econ 350; must be taken during the last year of college work.

MM 470 (S) 3 hrs. cr. Marketing Research

The systematic gathering, recording, analyzing and presentation of data relating to market analysis, sales analysis, consumer research, advertising research and attitude research. Prerequisites: GB 321 and six hours of marketing.

MM 491 (F, S) 18 hrs. cr. Internship in Marketing/Management

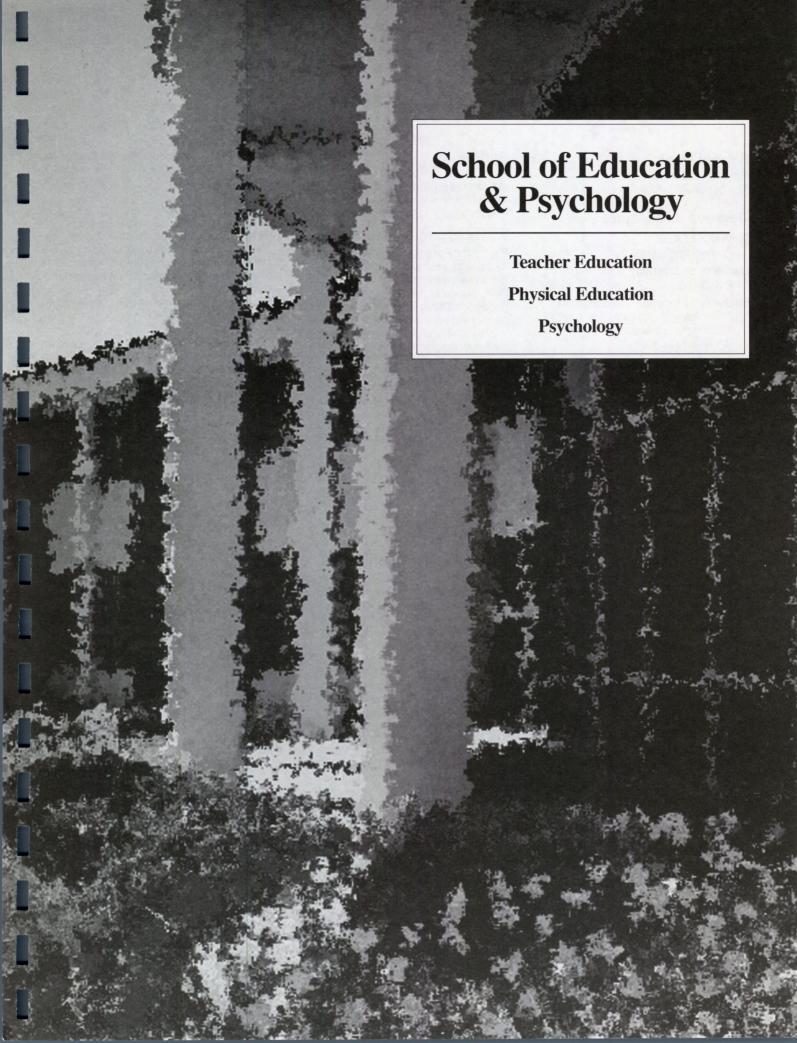
An internship for senior marketing/management students with an opportunity to observe and participate in actual business operations within the community. All internships must conform to institutional policy regarding the number of hours of work, the number of credit hours and written agreements with the cooperating business or agency. Prerequisites: 65 hours, 3.00 GPA and department approval.

MM 498 (Demand) 1-3 hrs. co Seminar in Marketing and Management

Seminar for upper division marketing and management or related majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission.

MM 499 (Demand) 1-3 hrs. cr. Independent Study in Marketing and Management

Individually directed readings, research and discussions in selected areas of marketing and management for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisites: GPA of 3.0 in major field and permission.



116 / Education & Psychology

School of Education & Psychology

School Dean

Edward P. Merryman Taylor Hall 220, 625-9314

Degrees and Majors

Bachelor of Arts Psychology

Bachelor of Science Psychology

Bachelor of Science in Education Elementary Education Secondary Education Physical Education

Role

The School of Education and Psychology shares in the mission of Missouri Southern by providing the professional education for preservice elementary and secondary teachers, and by preparing students in professional education and psychology for graduate education. The School of Education and Psychology serves the institution by providing support courses in physical education and psychology to the Core Curriculum.

The programs in the School of Education and Psychology are service-oriented and attract students who wish to make their contribution to society through teaching, research and humanitarian services. Because of the critical nature of the contributions these students make to society, those who are academically talented are encouraged to participate in the program.

A unique characteristic of the basic teacher preparation program is the shared responsibility for training preservice elementary and secondary teachers with academic units outside of the School of Education and Psýchology. Eighty percent of the course work in secondary education and 70 percent of the course work in elementary education is done in academic units outside the professional education unit. The Secondary Education Committee coordinates the work done by secondary education students in academic units in the School of Arts and Sciences and the School of Business Administration. All academic units have representatives on this committee. The ultimate responsibility for all teacher education programs rests with the Education Department, which is the governing unit for the basic teacher preparation program.

Scope

The School of Education and Psychology contributes to the mission of the College through teaching, community service and research.

The faculty in the School of Education and Psychology are dedicated to providing students with exemplary teaching. Since the faculty serve as professional role models for their students, they are aware of current pedagogical practices that have been developed from research and learning theory and they use this knowledge to develop teaching methods, techniques and procedures to create a maximal learning environment. Faculty provide services to the community by participating in civic organizations as leaders. members and consultants. All of the faculty work with the area schools through in-service programs, programs that have been developed for children and as consultants.

The faculty contribute to the advancement of knowledge in their respective fields through research and writing. Research that has been done in area schools has contributed to the improvement of the quality of teaching.

Teacher Education

The description of the teacher education program and the requirements that are listed for each program in teacher education in this catalog are subject to change during the period that this catalog is in use; therefore, the catalog is not a contract and should not be treated or viewed that way. At best, it is a guide. Teacher education students are encouraged to obtain degree plan sheets for the program they are pursuing and work closely with their advisers. As changes are made by the State Department of Elementary and Secondary Education, state legislature, and national accrediting bodies, we will alert the students in the program.

The teacher education program consists of the education department as the governing unit, the secondary education committee which oversees the secondary education program, the teacher education council, and the committee on admissions and retention.

The education department, in its function as the governing unit in teacher education, oversees all teacher education programs and is specifically responsible for the elementary education program grades 1 through 6, early childhood education program grades preschool through 3, middle school program grades 5 through 9, reading

education program grades K through 12, and special education programs grades K through 12.

The Dean of the School of Education and Psychology is the chief spokesman for the teacher education program and in this capacity is the chief administrator responsible for the teacher education programs. The dean serves in this capacity under the direction of the president of the college, senior vice president and the vice president for academic affairs.

The teacher education program is based on a decision making model which defines the role of the teacher as decision maker. In this role, the teacher must make decisions about pedagogical design and lesson design. Decisions concerning pedagogical design include those regarding classroom management, curriculum development, field experiences, technology and program evaluation. Decisions about lesson design include communications, use of science, technology and the arts, problem solving, value clarification, intellectual domains and social institutions. An extension of the role of the teacher as a decision maker includes the teacher as a change agent, learner, provider of services and researcher.

Central to the conceptualization of the role of the teacher is the knowledge base. The knowledge base is composed of knowledge, skills, techniques, concepts, constructs, etc., that have been gathered from research, reported effective practices and learned societies in such areas as school effectiveness, principles of effective instruction, human growth and development, learning theory, assessment, cultural diversity and special needs, curriculum content, and psychological, sociological, historical and philosophical foundations.

In order to be an effective decision maker, the teacher must possess certain knowledges, cognitive abilities and pedagogical skills. The objectives below were developed to assure the teacher education program provides these knowledges and skills:

 to provide a working knowledge and competency in the philosophical, sociological and psychological foundations of education. This knowledge is used as a basis for decision making, instructional design and educational planning;

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- to guide in the effective application of learning theory. This application shall include the learning environment learner attributes and learning tasks;
- to provide cognitive, affective and psychomotor learning in communication, problem solving, value clarification, social institutions, science and technology and the arts;
- to develop an understanding of how the human grows and develops. This understanding includes the theoretical basis for development and how relates to teaching and learning;
- to create an awareness of the cultural diversity that exist in our society and to provide knowledge relative to the contribution made by the various cultures to the American culture;
- to develop teaching expertise in the teaching specialty which shall include both breadth and depth in subject matter as well as the methods, techniques and skills for teaching this subject matter:
- to teach the knowledge and skills needed to develop instructional plans, strategies and assessments basic to meeting individual needs of students that may be evident in cultural diversity, values clarification and mental and physical exceptionalities;
- 8. to achieve knowledge for the effective use of various classroom management systems such as counseling, congruent communication, assertive discipline, reality therapy, etc. To develop the belief that there is a strong relationship between classroom management practices and teaching effectiveness:
- to make available experiences in learing to utilize and apply technology in education, such as microcomputers, VHS and film media. To develop effective use of the new technology as delivery systems for instructional purposes;
- to provide the knowledge and skills necessary to organize and manage an effective school environment. These will help in the management of instructional experiences, the instructional materials and all other physical properties related to learning;
- 11. to develop competency in the assessment of developmental and behavioral problems. The assessment competencies shall include instrumentation, administration and interpretation. Interpretative skills shall include the use of assessments in educational planning;

- 12. to provide the knowledge and skills required for reporting to, and working with, parents and parental support. The reporting to parents shall involve accurate and effective communication, both in writing and orally, concerning the needs and progress of students. In addition, to provide the knowledge and skills required to make referrals to community support systems and services for students needing intervention beyond the regular classroom instruction;
- 13. to provide practical experiences that accurately reflect those that occur in typical classroom settings. These experiences will provide opportunities to interact with the learner in the learning environment. The learning environment will be rich in opportunities to observe practices, methods and techniques as they are applied to learning and the learner;
- 14. to develop plans for continuous professional growth and development which includes self evaluation, performance based teacher evaluation and other forms of peer evaluation. Opportunities and experiences for the personal development of high ethical standards will be provided.

Admission to the Teacher Education Program

Applications for admission to the Teacher Education Program may be filed with the Dean of the School of Education when the student has successfully completed 55 semester hours of prescribed course work. The deadline for application is the third week in February for those seeking admission in the subsequent fall semester. The deadline for application for those seeking admission in the spring semester is the third week in October.

Students must be tentatively admitted before courses can be taken in professional education. These courses are identified by the Educ prefix numbers as 300 or above. Qualifications for tentative admission include the following:

- Submit a completed application that is signed by the student's adviser.
- Have a cumulative GPA of 2.75 in all course work. All students in education must maintain a cumulative GPA of 2.5 in their teaching areas, e.g., art, mathematics, elementary education, etc.
- Pass all sections of the Missouri C-Base Test. (This test is not required of post baccalaureates.)

- Have a composite ACT enhanced score of 20 or a SAT(VM) of 800.
- Submit a hand-written autobiography in correct and coherent standard English. The autobiography must be read and approved by the student's adviser.
- Submit a passing evaluation in speech from the communications department.
- Convicted felons must identify themselves by so indicating on the application for admission form. Upon identification the student will need to make certain documents and information available to the Admissions and Retention Committee of the Teacher Education Program, i.e., conviction status, probation information, recommendations from court and public officials associated with the conviction. This process must be repeated when application is made for student teaching. There is a process that convicted felons must follow before consideration is given for certification in the State of Missouri. Failure to identify oneself will cause the student to be removed from the program at once.

Students who are tentatively admitted to the teacher education program will receive notification from the Dean. Students who fail to gain tentative admission will also be notified by the Dean. Reasons for failure to gain admission will be stated, along with suggested corrective measures should the student wish to continue pursuing admission.

Full admission is granted when the student successfully completes Educ 329, Pedagogical Theory, Methods and Practices, Educ 321, Micro Teaching and Educ 423, Classroom Management. The student must be recommended by the instructors of these courses. The student must maintain a cumulative GPA of 2.75. If at any point in the program a student's GPA drops below accepted levels, the student will be dropped from the teacher education program.

Grades below a "C" in professional education courses will not be accepted for the degree requirements in teacher education. Students seeking certification in elementary education, special education and early child-hood education must have a grade of "C" or better in each of the courses in these certification areas.

Students qualifying for full admission to the program will be notified in writing by the Dean. The date of admission will be entered on the student's record by the Registrar.

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Unsuccessful students will also be notified and corrective measures suggested.

Applications for admission must be completed and on file in the office of the Dean of the School of Education and Psychology by Friday of the third week in October for the first semester and by Friday of the third week in February for the second semester.

Admission to Student Teaching

Between the course on Pedagogical Theory, Methods and Practices (Educ 329) and the professional semester, the student takes approximately 26 or more hours of work in professional education and in a teaching specialty. During this time the student must maintain a cumulative GPA of 2.75 or better and a GPA of 2.5 or better in the teaching specialty. The student must make a "C" or better in all professional education courses. The student must retake courses in which a grade lower than "C" is received. The student is expected to maintain those personal and professional requirements that were met as part of the admission requirements to teacher education. The requirements that must be met prior to admission to student teaching are:

- Be fully admitted to the teacher education program.
- 2. Have a cumulative GPA of 2.75.
- Have a cumulative GPA of 2.5 in teaching specialty area.
- Have all previous course work completed at the time of student teaching.
- Have a completed application for student teaching on file.
- Have a grade of "C" or better in each professional education course.
- Have an approved typewritten autobiography on file. The autobiography must consist of two or more paragraphs.
- Convicted felons must complete the form provided upon applying for admission to student teaching.

The student teaching program is intended for students who have met all of the requirements for student teaching at Missouri Southern State College. Students from other institutions who have, with the exception of student teaching, completed the teacher education program at those institutions and who were awarded baccalaureate degrees, must complete the equivalent of the professional semester at Missouri Southern. They must be in good standing at their previous institution. The Dean of the School of Education and Psychology will develop a course plan for those who wish to complete Mis-

souri certification requirements by taking student teaching at Missouri Southern.

Graduation Requirements

In order to graduate from the Teacher Education Program, the student must successfully complete the following exit requirements, in addition to all other academic requirements of the College:

- Submit 10 examples of the student's best work in the teacher education program.
- Pass all minimal competencies required of teacher education students.
- 3. Pass the Professional Knowledge Test of the National Teachers Exam.
- Pass the Teaching Specialty Exam of the National Teachers Examination.
- Successfully complete student teaching.
- 6. Have a cumulative GPA of 2.75 or higher.
- 7. Have a cumulative GPA of 2.5 or higher in the teaching specialty area.
- 8. Have a successful exit interview.

Advisement

Freshmen with declared majors in teacher education will have an adviser assigned as part of Educ 100 Orientation to Education I. Sophomores declaring a major in teacher education will be assigned advisers in Educ 200 Orientation to Education II. It is strongly recommended that all education majors have advisers in their teaching specialty area. This is because of the many specific course requirements and entrance and exit requirements for teacher education.

Post-graduates not holding a Missouri teach ing certificate and seeking Missouri certification must be advised in the specialty department of their intended teaching area. These students must meet all departmental requirements for certification.

Post-graduates holding Missouri certificates must have the Missouri State Department of Elementary and Secondary Education (DESE) evaluate their transcripts and make recommendations for course work that will lead to certification. After a plan sheet is received by the student, the requirements specified by DESE may be translated into MSSC courses by the Assistant Certification Officer in the Office of the Dean.

Education

Taylor Hall 232, 625-9309

Faculty Sandrin - Head, Banks, Becker, Joyner, McConnell, Merryman, Overdeer, Pulliam, Ray, Smith, Spencer

Program Objectives

Objectives for all programs in teacher education can be found in the Teacher Education Program Policy Handbook For Faculty and in the Teacher Education Program Policy Handbook For Students. Objectives for the student teaching program can be found in the Policy Handbook For Student Teachers, Cooperating Teachers, and College Supervisors.

General Information

Students who select education as a major may choose to become qualified in elementary education grades 1-6, early childhood education grades preschool-3, special education grades K-12, middle school education grades 5-9, or secondary education. In addition to these areas of study, a student may work toward certification in reading education grades K-12 by completing all of the reading certification requirements except two years of teaching experience. The student who completes this program and completes two years of teaching experience may apply to the Department of Elementary and Secondary Education for the reading certificate.

Students who complete the requirements in early childhood education, special education, and reading education will, upon the completion of their programs, be qualified to teach in elementary grades 1 through 6 as well.

Students who complete the middle school program from an elementary school program will be certified to teach in grades 1 through 6 as well as middle school grades 5-9. Students who complete the middle school program from a secondary school program will be certified to teach in the area of their secondary specialization and in middle school grades 5 through 9. The secondary specializations that may be used for middle school certification are listed below. Other approved secondary teaching specializations may be used as endorsements to these four major areas. Education majors who elect the middle school program (from both elementary and secondary programs) must select their middle school teaching specialty from four major areas:

Language Arts Mathematics Science Social Science

For more specific information see the section on the middle school.

Area of Concentration

Students who elect elementary education grades 1 through 6 as their teaching area must complete an area of concentration consisting of a minimum of 21 hours. This requirement may be met in one of two ways as follows:

Option 1: A collection of 21 hours of approved courses in an area of study such as English, mathematics, science, social studies, music, theatre, etc.

Option 2: A grades 7-9 certification endorsement in an area of study such as English, mathematics, social studies, science, etc. A course of study for grades 7-9 certification is available in the Education office.

Psychology Requirements

Elementary education students grades 1 through 6 and early childhood students grades preschool through 3 must take Psy 100, General Psychology; Psy 300, Child Development; and Psy 310, Educational Psychology.

Middle school students grades 5 through 9, special education students K through 12, music education students grades K through 12 and grades K through 9, art education students grades K through 9 and grades K through 12, psysical education students grades K through 12 and grades K through 9, Spanish education students grades K through 12 and reading education students grades K through 12 must take Psy 100, General Psychology; Psy 305, Developmental Psychology; and Psy 310, Educational Psychology.

Secondary education students in biology education, business education, chemistry education, English education, mathematics education, physical education, physics education, social studies must take Psy 100, General Psychology; Psy 301, Adolescent Psychology; and Psy 310, Educational Psychology.

Psy 412, Measurement and Evaluation in Education and Psychology, is a recommended elective for all education students and especially secondary education students.

Minor in Education

An academic minor has been created in teacher education for the B.A. and B.S. student considering a career in education at some future time. This minor is not developed to meet certification requirements, but to provide the students with an adequate background in professional education for career decision making and as a foundation for the remaining certification requirements.

Minor in Education (Elementary and Secondary)

The student must meet admission requirements to the teacher education program. See page 117 for admission requirements.

Semester Hours

Educ 302	The Exceptional Child	2
Educ 329	Ped Theory, Methods &	
	Practices	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
	a Requirements	9
Educ 401	Computer Software in the	
	Classroom	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues	2
Educ 342	Intro to Dev Reading (3)	
OR	State of the state of the	
Educ 422	Reading in the	
	Secondary Schools (2) 3	-2
Educ 412	Middle School/Jr Hi	
	Philosophy, Organization	
	and Curriculum	2

Bachelor of Science in Education (B.S.E.)

Students majoring in elementary education, elementary education/special education. physical education, and secondary education and who successfully complete the requirements for this degree will be recommended for the Professional Certificate-I teaching certification. This is a probationary certificate that is granted for three years. Additional certification is granted by the Missouri Department of Elementary and Secondary Education. Recipients of other degrees who wish to be certified in the State of Missouri must meet all of the requirements that are set forth in this catalog for the B.S.E. degree. All of the teacher education programs have been approved by the Missouri State Department of Elementary and Secondary Education and by the National Council for Accreditation of Teacher Education. All programs are designed to exceed minimal requirements for certification.

Bachelor of Science in Education

Elementary Education Core Requirements (p. 35)

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Exceptions to the Core Requirements: Physical Education Requirements

All teacher education students must meet the Core Curriculum requirements with the exception of elementary education students who have elected a teaching specialization beyond the elementary requirements, e.g., early childhood education, special education, reading education, etc. These students are not required to take HPER 101 Activities and HPER 103 Lifetime Wellness. In the place of these two courses, elementary education students are required to take HPER 370 School Health Education and HPER 311 Physical Education for the Elementary School.

History Requirement

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Students in elementary education, early childhood education, middle school education (elementary\middle school) reading education and all special education fields must take Hist 110 United States History from 1492-1877 and Hist 320 United States History 1877 to Present.

Requirements for Elementary Education
Core Education Requirements 65-66
HPER 370 School Health 3

HPER 3/0	School Health	3
Geog 211	Geography	3
Math 120	Math Elem Teacher II	3
Eng 325	Children's Literature	3
Art 220	Art Education	2
Mus 332	Music for Elem School	2
Educ 302	Exceptional Child	2
Psy 100	General Psychology	3
AND		
Psy 300	Child Development	3
Psy 310	Educational Psychology	2
HPER 311	PE for the Elem School	2
Educ 401	Computer Software in the	
	Classroom	2

Students must be tentatively admitted to teacher education prior to taking the following courses (see admission requirements):

Educ 329	Ped Theory, Methods &	
	Practices	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Page Media	a Competencies	

In order to take the remaining courses, the student must be fully admitted to the teacher education program:

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Students	sional Semester Courses is taking the following courses impleted their applications for		Teacher E	ase Test. Apply for admissiducation Program. If ACT is		Early Cl	or of Science in Educati hildhood Education Preschool-3	ion
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		2	CORE	[Phys 100 Fund of Phys Sci		Psy 100	General Psychology	3
	32 Critical Issues	2		Music for Elem School	2	CORE	[Eng 101 Comp I]	3
Educ 32	22 Teaching Social Studies			Comp Sftwar Clsrm**	2	CORE	[Math 111 Math Elem Tchr I]	3
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st Seme				Regions and Nations	3	Euuc 200	Onemation to Educ II	17
Course		Hours		Rdg in the Mid School	3			17
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Sophom style="color: blue;">Sophom style="color: blue;">So	ester O Orientation to Educ II [Bio 101 General Biology] [Hist 320 U.S. 1877-present] state certification requirements til elementary supported fields muusic or Art Appreciation as a first can select from B, Area 2. Hum Arts and from C of Area 2 page [Art 110 Art Apprec] (3) [Mus 110 Music Apprec] (3) [PSc 120 Gov't: U.S./Sta/Local]	4 3 he stu- st take choice anities 35.	Educ 412 Educ 420 Psy 412 Educ 442 (Prerequis [Departme *Student m Dean's off **This is th must be ta except tho literacy red	Intro to Counseling+ Measurement and Eval Student Teaching iites) Int Recommendations] Ites thave speech evaluation for the computer literacy requires ken by all teacher educations estudents who meet their	3 2 8 18-19 filled in the ment and a students computer specialty.	Educ 321 Educ 423 Educ 302 HPER 376 Educ 316 2nd Seme Students Education Educ 342 Eng 325 Educ 340	Microteaching Classroom Management Exceptional Child D School Health Educ Found, Iss, Trnd ECE* ester must be fully admitted to the Temperam. Intro to Dev Reading Children's Literature Language Arts	2 2 3 2 17 Feache
Sophom style="color: blue;">Sophom style="color: blue;">So	ester O Orientation to Educ II [Bio 101 General Biology] [Hist 320 U.S. 1877-present] state certification requirements til elementary supported fields mu usic or Art Appreciation as a first can select from B, Area 2. Hum Arts and from C of Area 2 page [Art 110 Art Apprec] (3) [Mus 110 Music Apprec] (3) [PSc 120 Gov't: U.S./Sta/Local]	4 3 he stu- est take choice anities 35.	Educ 412 Educ 420 Psy 412 Educ 442 (Prerequis [Departme *Student m Dean's off **This is th must be ta except tho literacy red	Intro to Counseling+ Measurement and Eval Student Teaching iites) Int Recommendations] Itust have speech evaluation for the computer literacy requires ken by all teacher educations es students who meet their quirement in their teaching significant and the country of the coun	3 2 8 18-19 filled in the ment and a students computer specialty.	Educ 321 Educ 423 Educ 302 HPER 370 Educ 316 2nd Seme Students Education Educ 342 Eng 325 Educ 340 Educ 312	Microteaching Classroom Management Exceptional Child D School Health Educ Found, Iss, Trnd ECE* ester must be fully admitted to the Temperam. Intro to Dev Reading Children's Literature Language Arts Prob of Tchng Arith	2 2 3 2 17 Feache 3 3 2 3
Sophom style="color: blue;">Sophom style="color: blue;">So	ester O Orientation to Educ II [Bio 101 General Biology] [Hist 320 U.S. 1877-present] state certification requirements til elementary supported fields mu usic or Art Appreciation as a first can select from B, Area 2. Hum Arts and from C of Area 2 page [Art 110 Art Apprec] (3) [Mus 110 Music Apprec] (3) [PSc 120 Gov't: U.S./Sta/Local]	4 3 he stu- st take choice anities 35.	Educ 412 Educ 420 Psy 412 Educ 442 (Prerequis [Departme *Student in Dean's off **This is th must be ta except tho literacy red **Meets th cation.	Intro to Counseling+ Measurement and Eval Student Teaching ites) Int Recommendations] Ites thave speech evaluation force. Interes the computer literacy requires the computer literacy requires the se students who meet their quirement in their teaching sees core requirements in Physical	3 2 8 18-19 filed in the ment and a students computer specialty. sical Edu-	Educ 321 Educ 423 Educ 302 HPER 370 Educ 316 2nd Seme Students Education Educ 342 Eng 325 Educ 340 Educ 312 Educ 311	Microteaching Classroom Management Exceptional Child D School Health Educ Found, Iss, Trnd ECE* ester must be fully admitted to the Temperam. Intro to Dev Reading Children's Literature Language Arts Prob of Tchng Arith Teaching Science Elem	2 2 3 2 17 Feache 3 3 2 3 2
Sophom st Sense duc 200 CORE CORE To meet dent in al either Mund then core CORE CORE CORE CORE CORE CORE CORE CORE	ester O Orientation to Educ II [Bio 101 General Biology] [Hist 320 U.S. 1877-present] state certification requirements til elementary supported fields mu usic or Art Appreciation as a first can select from B, Area 2. Hum Arts and from C of Area 2 page [Art 110 Art Apprec] (3) [Mus 110 Music Apprec] (3) [PSc 120 Gov't: U.S./Sta/Local]	4 3 he stu- st take choice anities 35.	Educ 412 Educ 420 Psy 412 Educ 442 (Prerequis [Departme *Student in Dean's off **This is th must be ta except tho literacy red **Meets th cation.	Intro to Counseling+ Measurement and Eval Student Teaching iites) Int Recommendations] Itust have speech evaluation for the computer literacy requires ken by all teacher educations es students who meet their quirement in their teaching significant and the country of the coun	3 2 8 18-19 filed in the ment and a students computer specialty. sical Edu-	Educ 321 Educ 423 Educ 302 HPER 370 Educ 316 2nd Seme Students Education Educ 342 Eng 325 Educ 340 Educ 311 Educ 311	Microteaching Classroom Management Exceptional Child O School Health Educ Found, Iss, Trnd ECE* ester must be fully admitted to the Topogram. Intro to Dev Reading Children's Literature Language Arts Prob of Tchng Arith Teaching Science Elem Curriculum - ECE*	2 2 3 2 17 Feache 3 3 2 3 2 3
1st Seme Educ 200 CORE CORE (To meet dent in all either Mu	ester O Orientation to Educ II [Bio 101 General Biology] [Hist 320 U.S. 1877-present] state certification requirements til elementary supported fields mu usic or Art Appreciation as a first can select from B, Area 2. Hum Arts and from C of Area 2 page [Art 110 Art Apprec] (3) [Mus 110 Music Apprec] (3) [PSc 120 Gov't: U.S./Sta/Local]	4 3 he stu- st take choice anities 35.	Educ 412 Educ 420 Psy 412 Educ 442 (Prerequis [Departme *Student in Dean's off **This is it must be ta except tho literacy red ***Meets ti cation. ****Is requistudents.	Intro to Counseling+ Measurement and Eval Student Teaching ites) Int Recommendations] Ites thave speech evaluation force. Interes the computer literacy requires the computer literacy requires the se students who meet their quirement in their teaching see core requirements in Physical	3 2 8 18-19 filed in the ment and a students computer specialty. sical Educrification	Educ 321 Educ 423 Educ 302 HPER 370 Educ 316 2nd Seme Students Education Educ 342 Eng 325 Educ 340 Educ 311 Educ 311	Microteaching Classroom Management Exceptional Child D School Health Educ Found, Iss, Trnd ECE* ester must be fully admitted to the Temperam. Intro to Dev Reading Children's Literature Language Arts Prob of Tchng Arith Teaching Science Elem	2 2 3 2 17 Feache 3 3 2 3 2

Education / 121

Educ 470		
Educ 318 Educ 319		3 2 5 16
Educ 409 HPER 340 Educ 420 Educ 322	ster Educational Psychology Topic in ECE:Lang Devl* Motor Learning* Intro to Counseling** Tchg Soc St Elem Mus Elem School	2 2 3 3 2 2 14
Educ 432 (2 2 8
(Prerequisi [Departmen *Courses s of Emphasi Area of En **Must be t	nentary/ECE Program 1 tes) nt Recommendations] specific to the Early Childhood A	43 Area
semester.		

Bachelor of Science in Education-Elementary Education/Reading Education Grades K-12 Certification

Students who wish to certify in reading education should follow the order of study below. When students complete the sequence of courses satisfactorily, and upon completion of two years of teaching experience, they may certify as reading specialists in the State of Missouri. Advisers should pay particular attention to the sequence of courses. For example, a student must take Educ 342 before taking Educ 343. Educ 343 may be taken with Educ 470.

Suggested Order of Study

Reading (Options I and II)

Freshman Year

1st Semes	ster	STE
Course		Hours
Psy 100	General Psychology	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 111 Math Elem Tchrs I] 3
CORE	[Econ 180 Amer Econ Sys]	3
Psy 120	College Orientation	1
Educ 100	Orientation to Educ I	1

2nd Seme Math 120 CORE CORE OR		3 3
CORE	[Comm 131 Voice & Diction]	3
CORE	[Hist 110 U.S. 1492-1865]	3
CORE	[Literature]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
OONE	[1 00 120 001 1. 0.0.7010/200]	18
Sophomo 1st Semes		
Hist 320	U.S. Hist 1877-present	3
CORE	Bio 101 General Biology	4
CORE	[Mus 110 Music Apprec]	3
CORE	[Art 110 Art Apprec]	3
Geog 211	Regions and Nations	3
Educ 200	Orientation to Educ II	1
		17
	ster S-Base Test. Apply for admission ducation Program. If ACT comp	

Educ 401	Computer Software	2
Psy 305	Child Development	4
Soc 110	Intro to Sociology	3
HPER 311	PE in Elem School	2
CORE	[Psy 100 Fund of Phys Sci]	5

less than 20, student should retake the ACT.

Junior Year

1st Semester

Pass media competencies. Students must be tentatively admitted to the

Teacher Education Program before courses with an "Educ" prefix can be taken. (Exceptions: Educ 100, Educ 200, Educ 302 and Educ 401)

Educ 329	Ped Theo, Methds & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Educ 302	Exceptional Child	2
Educ 342	Intro Dev. Reading	3
HPER 370	School Health Educ	3
Psy 310	Educational Psychology	2
		18

2nd Semester

Students must be fully admitted to the Teacher Education Program.

Educ 474	Educ & Psy Testg*	3	
Mus 332	Mus Elem School	2	
Educ 343	Rdg in the Mid School	3	
Educ 470	Diag & Rmdl Rdg	3	
Educ 340	Language Arts	2	
Educ 312	Problems of Teaching Arith	3	
		16	

Senior Year

14

1st Semes	ter	
Eng 325	Children's Literature	3
Educ 322	Tching Soc Stu in Elem Sch	2
Art 220	Art Education	2
Educ 311	Teaching Science Elem	2
Educ 471	Pract in Diag Rdg Diff	3
Educ 472	Pract in Rem of Rdg	3
Educ 420	Intro to Counseling*	3
		18

2nd Semes	ster	
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues in Educ	2
Educ 442	Student Teaching	8
Select one	from the following:	
Educ 412	Mid Sch-Jr Hi-Phil-Org-Curr	
Psy 412	Measurement & Eval	2
THE STATE OF		14

Area of emphasis total semester hours: Option I = 22 Option II = 32

Reading (Remedial) - Option II

Students must complete all of the above courses as well as the following in order to be certified in Remedial Reading.

ricinculai	ricauliy.	
Educ 430	Language Development	3
Educ 350	Corrective Reading	2
Educ 422	Rdg in Content Area	2
		7

In order to be certified in Remedial Reading the applicant must complete two years of teaching experience.

(Prerequisites)

16

[Department Recommendations]

*Course specific to the area of Reading emphasis.

**Students may opt to enroll in one/two of the six week classes listed under second semester in order to even out semester load.

***Must be taken prior to student teaching semester.

Total hours: Option I = 130/131 Option II = 140

Bachelor of Science in Education-Elementary Education/Special Education Grades K-12 Certification

Students who wish to certify in special education may certify in one or all of the following areas of special education:

Learning Disabilities Mentally Handicapped Behavior Disordered

Students who pursue these programs must carefully follow the orders of study for these fields.

Beginning with the first semester of the junior year, students may begin taking the required courses in special education. The first course in a sequence of courses that may be taken is Educ 324, Introduction to Special Education, 3 hrs. This courses introduces the three certification areas in special education offered at MSSC. This course must be taken before any of the methods courses in special education can be taken. After this course is successfully completed, the student may take any of the three methods courses. After successfully completing

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a methods course, the student may do the practicum in the same field as the methods course. Students may not take the methods course and the practicum course at the same time. A student may not take the introductory course and a methods course at the same time. Other courses that are required for special education may be taken according to the suggested order of study below for each of the three certification fields.

Student teaching for special education students consists of a full ten week experience in the field chosen by the student. Students who choose to student teach in LD, must meet all course requirements for LD, qualify for admission to student teaching, and then do ten weeks student teaching in LD. Students must have a student teaching experience in each of the fields in which they wish to certify.

Students cannot be assigned to cross categorical classrooms. Students can't be certified to teach in cross categorical classrooms unless they hold certification in each of the categories being taught.

Suggested Order of Study

Bachelor of Science in Education Elementary Education/Special Education: Learning Disabilities Grades K-12 Certification

Freshman Year 1st Semester

Course

Course		Hours
Psy 100	General Psychology	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 111 Math Elem Tchrs I	1 3
CORE	[Econ 180 Amer Econ Sys]	3
Psv 120	College Orientation	1
Educ 100	Orientation to Educ I	1
		14
2nd Seme	ester	
Math 120	Math Elem Teachers II	3
CORE	[Eng 102 Comp II]	3
CORE	[Comm 100 Oral Comm]	
OR		
CORE	[Comm 131 Voice & Diction]	3
CORE	[Hist 110 U.S. 1492-1865]	3
CORE	[Literature]	3
CORE	[PSc 120 Govt: U.S./Sta/Loc	
	[. 23 .23 23 th 0.0% old 200]	18

Sonhomore Vear

Soprionic	ic icai	
1st Semes	ster	
Hist 320	U.S. Hist 1865-present	3
CORE	[Bio 101 General Biology]	4
CORE	[Mus 110 Music Apprec]	3
CORE	[Art 110 Art Apprec]	3
Psy 305	Developmental Psy	4
Educ 200	Orientation to Educ II	1
		18

2nd Semester

Take the C	C-Base test. Apply for admission	on to the
Teacher E	ducation Program. If ACT com	posite i
less than a	20, students should retake the	ACT.
Educ 401	Computer Software	2
Geog 211	Regions & Nations	3
Soc 110	Intro to Sociology	3
HPER 311	PE in Elem Sch	2
CORE	[Psy 100 Fund of Phys Sci]	5
Mus 332	Music for Elem School	2
Educ 302	Exceptional Child	2
		19

Junior Year

151	Semester	

Pass media competencies.

Educ 324 Intro SpEd (MH,LD,BD)*

Students must be tentatively admitted to the Teacher Education Program before courses with an "Educ" prefix can be taken. [(Exceptions: Educ 100, Educ 200, Educ 302 and Educ 401) Educ 329 Ped Theo Methods & Prac Educ 321 Microteaching Educ 423 Classroom Management 2 Art 220 Art Education HPER 370School Health Educ 3 Psy 310 Education Psy 2

2nd Semester

Students must be fully admitted to the Teacher

Education	Program.	
Educ 474	Educ & Psy Testg SpEd*	3
Educ 342	Intro to Dev Rdg	3
Eng 325	Children's Literature	3
Educ 340	Language Arts	2
Educ 312	Problems of Tchg Arith	3
Educ 311	Tchg Sci Elem	2
Educ 404	Methods for Tchg LD*	3
		19

Senior Year

1st Semester			
Educ 446	Pract. for LD*	3	
Educ 343	Teaching Reading in Mid Sch	3	
Educ 470	Diag & Remedial Rdg	3	
Educ 407	Diag & Prscrptv Tchg.*	3	
Educ 430	Lang Dev Except Child*	3	
Educ 420	Intro to Counseling**	3	
		18	

2nd Semester

Zilu Seille	zila Semester			
Educ 402	Foundations of Educ	2		
Educ 432	Critical Issues in Educ	2		
Educ 322	Tchg Soci Stu in Elem Sch	2		
Educ 412	Mid Sch-Jr Hi-Phil-Org-Curr (2	2)		
OR				
Psy 412	Measurement & Eval (2)	2		
Educ 444	Student Teaching LD	8		

Total Hours BSE LD Emphasis = 140

(Prerequisites)

[Department Recommendations]

*Courses specific to the LD area of emphasis. Area emphasis total semester hours = 29

**Must be taken before student teaching semes-

Bachelor of Science in Education Elementary Education/Special Education: Mentally Handicapped Grades K-12 Certification

Freshman Year

1st Semes	ster	
Course		Hours
Psy 100	General Psychology	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 111 Math Elem Tchrs]	3
CORE	[Econ 180 Amer Econ Sys]	3
Psy 120	College Orientation	1
Educ 100	Orient to Educ I	1
		14
2nd Seme	ster	
Math 120	Math for Elem Tchrs	3
CORE	[Eng 102 Comp I (Eng 101)]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Hist 110 U.S. 1492-1865]	3
CORE	[Literature]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc	1 3
		18

18

Sophomore Year				
	1st Semes	ster		
	Hist 320	U.S. Hist 1865-present	3	
	CORE	[Bio 101 General Biology]	4	
	CORE	[Mus 110 Music Apprec]	3	
	CORE	[Art 110 Art Apprec]	3	
	Psy 305	Developmental Psy	4	
	Educ 200	Orientation to Educ II	1	
			18	

2nd Semester

Take the C-Base test. Apply for admission to the Teacher Education Program. If ACT composite is less than 20, students should retake the ACT. Educ 302 Exceptional Child Educ 401 Computer Software Geog 211 Regions & Nations 3 Soc 110 Intro to Sociology 3 HPER 311 PE in Elem School 2 CORE [Psy 100 Fund of Phys Sci] 5

Junior Year

1st Semester

Pass media competencies.

Mus 332 Music for Elem School

Students must be tentatively admitted to the Teacher Education Program before courses with

	refix can be taken. (Exceptions:	Eau
100, Educ	200, Educ 302 and Educ 401)	
Educ 329	Ped Theory, Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Art 220	Art Education	2
HPER 370	School Health Educ	3
Psy 310	Educational Psychology	2
Educ 324	Intro Sp Ed (MH,LD,BD)*	3
		10

2nd Semester

Students must be fully admitted to the Teacher

Education	Program.	
Educ 474	Educ & Psy Testg SpEd*	3
Educ 342	Intro to Dev Reading	3
Eng 325	Children's Literature	3
Educ 340	Language Arts	2
Educ 312	Problems of Tchg Arit	3
Educ 311	Science Elem School	2
Educ 403	Methods for Tchg MH*	3

2 19

Education / 123

O! V-		
Senior Ye		
Educ 446	Prac for MH*	3
Educ 343		3
Educ 470	Diag & Remedial Rdg	3
Educ 407	Diag & Prscrptv Tchg.*	3
Educ 430	Lang Dev. Except Child*	3
Educ 420	Intro to Counseling**	3
		18
	The second of the second secon	
2nd Seme		
Educ 402 Educ 432	Foundations of Educ	2
Educ 332	Critical Issues in Educ Tchg Soc Stu in Elem Sch	2 2 2
Educ 412		
OR	wild don't in this dig dan	
Psy 412	Measurement & Eval	2
Educ 444	Student Teaching BD*	2
		16
Total Hou	rs BSE MH Emphasis = 140	
(Prerequis		
	ent Recommendations]	
	specific to the MH area of emph	
	phasis total semester hours =	29.
semester.	taken before student teaching	
semester.		
Rachelo	or of Science in Education	n
	tary Education/ Special	,,,
Education	on Behavior Disordered	
Freshman	Year	
1st Semes	ster	
Course	1	Hours
Psy 100	General Psychology	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 111 Math for Elem Tchrs]	3 3
CORE	[Econ 180 Amer Econ Sys]	3
Psy 120 Educ 100	College Orientation Orient to Educ I	
Educ 100	Orient to Educ I	14
		17
2nd Seme	ster	
Math 120		3
CORE	[Eng 102 Comp II (Eng 101)]	3 3 3
CORE	[Comm 100 Oral Comm]	3
CORE	[Hist 110 U.S. Hist 1492-1865]	3
CORE	[Literature Elective]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
		18
Sophomo		7
1st Semes		
Hist 320	U.S. Hist 1865-Present	3
CORE	[Bio 101 General Biology]	4
CORE	[Mus 110 Music Apprec]	3
CORE Psy 305	[Art 110 Art Apprec] Developmental Psy	1
Educ 200		1
Luuc 200	Chemation to Educ II	3 4 3 4 1 18
2nd Semes	ster	
Pass C-Ba		
	entative admission to teacher	
education.		
Educ 302	Exceptional Child	2
Educ 401	Computer Software	2
Geog 211	Pagiona & Mationa	2
deug 211		9
Soc 110	Sociology	3
Soc 110		2 2 3 3 2 5

[Psy 100 Fund of Phys Sci]

Music for Elem School

2

19

CORE

Mus 332

_				-
	Qualify for Education Educ 329 Educ 321 Educ 423 Art 220 HPER 370 Psy 310	ster ia competencies. rfull admission to Teacher	4 2 2 2 3 2 3	
		5 5 5 5 5 5 5 5 5	20	
	and Com	atau	20	
	2nd Seme Educ 474 Educ 342 Eng 325 Educ 340 Educ 312 Educ 311 Educ 405	Educ & Psy Testng SpEd* Intro Dev Reading Children's Literature Lang Arts Elem Problms Tchg Arith Science Elem School	3 3 2 3 2 3 19	
	Senior Ye	ar	19	
	1st Semes			
		Prac for BD	3	
	Educ 343		3	
	Educ 343		3	
	Educ 470	Intro Counseling**	3	
	Educ 420	Diag & Prscrptv Tch*	3	
	Educ 430	Lang Dev Except Child*	3	
	Luuc 430	Lang Dev Except Child	18	
			10	
	2nd Seme	ster		
		Foundations of Educ	2	
		Critical Issues	2	
	Educ 322	Tchg Soc Stds Elem	2	
	Educ 412	Mid Sch-Jr H-Phil-Org-Curr		
	OR	The statement of the statement of		
	Psy 412	Measurement & Eval	2	
	Educ 444	Std Tch BD (10 wks)*	8	
			16	

Total Hours BSE BD Emphasis = 140

(Prerequisites)

[Department Recommendations]

*Courses specific to the BD area of emphasis.

Area of emphasis total semester hours = 29

**Must be taken before student teaching semester.

Bachelor of Science in Education - Elementary Education/Middle School Grades 5-9 Certification

Students wishing to teach in the middle school grades 5 through 9 and who are pursuing elementary school certification grades 1-6 must select a major area from four prescribed areas for their teaching specialty as follows: language arts, science, social studies, and mathematics. Certification for middle school will be granted by using one of the following three options:

 A teacher may be granted certification in two of the four major areas with a minimum of 21 semester hours in each area or a total of 42 semester hours.

- A teacher may be granted certification in one major area and one endorsement area with a minimum of 42 semester hours.
- A teacher may be granted certification in one of the four major areas with a minimum of 30 semester in the subject area. Endorsement to one of these major areas include speech 5-9 and drama 5-9.

Students who wish to endorse in these areas must obtain a program of study in these areas from the Dean of the School of Education. Other endorsements that may be utilized at the middle school level are the following: art K-9, Spanish K-9, health K-9, physical education K-9, and music K-9.

A suggested order of study is recommended for each of the major areas below. It is essential for a student to take all of the courses in the suggested order of study for the major area that is chosen for a teaching area. Students selecting options one or two above must seek advisement for these two options by a middle school adviser in the education department.

Suggested Order of Study

Bachelor of Science in Education Elementary\Middle School Grades 5-9 -Language Arts

Freshman Year 1st Semester Course Hours Educ 100 Orient to Educ I Psy 100 General Psychology 3 CORE [Eng 101 Comp I] CORE [Math 111 Math Elem Tchrs I] 3 CORE [Econ 180 Amer Econ Sys] 3 Psy 120 College Orientation 14

2nd Semester				
Math 120	Math for Elem Tchrs II	3		
CORE	[Eng 102 Comp II (Eng 101)]	3		
CORE	[Comm 100 Oral Comm]	3		
Hist 110	U.S. History 1492-1877	3		
Eng 281/2	82 American Literature	3		
Art 220	Art Education	2		
		17		

Sophomore Year

1st Semest	ter	
Educ 200	Orientation to Educ II	1
CORE	[Bio 101 General Biology]	4
Hist 320	U.S. History 1877-present	3
CORE	[Art 110 Art Apprec] (3)	
OR		
CORE	[Mus 110 Music Apprec] (3)	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
Eng 271/2	72 English Literature	3
		17

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eacher Edu	e test. Apply for admission cation Program. If ACT is le	ess than	Element	r of Science in Educat ary Education\Middle S 5-9 - Science		2nd Semes Geol 110 Geog 211 Educ 340	ster Intro to Geology Regions & Nations Language Arts	5 3 2
,	nt should retake the ACT.		Fusaleman	Vaca		Educ 342		3
,	evelopmental Psych	4	Freshman					
	lusic Elem Schl	2	1st Semes	ter		Educ 312	0	3
oc 110 lr	ntro to Sociology	3	Course		Hours	Art 220	Art Education	2
PER 311 F	hys Educ in Elem Sch	2	Educ 100	Orientation to Educ I	1			18
	und of Phys Science	5	Psy 100	General Psychology	3			
	Computer Software	2	CORE	[Eng 101 Comp I]	3	Senior Ye	ar	
duc 401 C	omputer Software	18						
		10	CORE	[Math 111 Math Elem Tchrs		1st Semes		
			CORE	[Econ 180 Amer Econ Sys]	3		student teaching.	
nior Year			Psy 120	College Orientation	1	Eng 325	Children's Literature	3
t Semester					14	Phys 180	Intro to Meterology	3
ass media d	competencies.					Educ 343	Tchg Rdg Middle School	3
	st be tentatively admitted	to the	2nd Semes	etor			0 0	
	cation Program prior to ta				2	Educ 470	Diag & Remedial Rdg	3
			Math 120	Math for Elem Tchrs II	3	Educ 412	Mid Sch-Jr Hi-Phil-Org-Curr	2
	nd all subsequent courses	prefixed	CORE	[Eng 102 Comp II (Eng 101)		Educ 311	Science in Elem School	2
ith Educ.			CORE	[Comm 100 Oral Comm]	3	CORE	[Literature]	3
duc 329 F	ed Theo Methds, & Prac	4	Hist 110	U.S. History 1492-1877		00112		19
	Microteaching	2	CORE	[Chem 100 Intro Chem]	5	Ond Carrie	oto.	13
			COME	[Onem 100 millo Onem]		2nd Seme		
	Classroom Management	2			17	Educ 333	Tchg Science Secondary	2
	Sch Health Education	3				Educ 402	Foundations of Educ	2
duc 302 T	he Exceptional Child	2	Sophomo	re Year		Educ 432	Critical Issues	2
	Composition for Teachers	3	1st Semes					
		2			1	Educ 322		2
y 310 E	ducational Psychology		Educ 200	Orientation to Educ II	1	Educ 420	Intro to Counseling* (3)	
		18	CORE	[Bio 101 General Biology]	4	OR		
			Hist 320	U.S. History 1877-present	3	Psv 412	Meas & Eval Educ\Psy (2)	3-2
d Semeste	er		CORE	[Art 110 Art Apprec] (3)		Educ 442		8
	2 American Literature	3	OR	[/		Euuc 442	9	
				[A4 440 A4 A 1/0)	0		The state of the s	8-19
	Modern Grammar	3	CORE	[Mus 110 Music Apprec] (3)				
	Regions and Nations	3	CORE	[PSc 120 Gov't: U.S./Sta/Lo	c] 3	(Prerequis	ites)	
duc 340 L	anguage Arts	2	CORE	[Select from Area 2B or 2C]	3		ent Recommendations]	
duc 342 I	ntro to Develptl Rdg	3		Section Physics and Section 2012 P.	17			
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Education / 125

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	Student m	ter a competencies. ust be tentatively admitted	to the
	junior block with Educ.	ducation Program prior to taki and all subsequent courses pr	refixed
	Educ 329 Educ 321	Ped Theory, Methods, & Prac Microteaching	
	Educ 423	Classroom Management	2
	HPER 370		3
	Educ 302	The Exceptional Child	2
	Psy 310		223225
	Math 260	Calculus with Analyt	20
			20
	2nd Semes Math 310 OR	ster Elementary Statistics (3)	
	Math 361	Intro to Probability (3)	3
	Geog 211	Regions & Nations	3
	Educ 340	Language Arts	2
	Educ 342	Intro to Develptl Rdg	3
	Educ 312	Prob in Tching Arith	3 3 2 3 3 2
	Art 220	Art Education	19
1	Senior Yea	ır	
	1st Semest		
		udent teaching.	
	Math 300 Eng 325	Fund of Math Tho Children's Literature	3 3 3 3 2 2 2 2 18
1	Educ 343	Tchg Rdg Middle School	3
	Educ 470	Diag & Remedial Rdg	3
	Educ 422	Rdg Secondary Schools	2
	Educ 412	Mid Sch-Jr Hi-Phil-Org-Curr	2
	Educ 311	Science in Elem School	2
			18
	2nd Semes	ter	
	Educ 339	Teaching Math Scdry	2
	Educ 402	Foundations of Educ	2
	Educ 422	Rdg Secondary Schools Critical Issues	2
	Educ 432 Educ 322	Soc Studies Elem Sch	2 2 2 2 2
	Educ 420	Intro to Counseling* (3)	
	OR		
	Psy 412 Educ 442	Meas & Eval Educ\Psy (2) 3 Stu Tching Mid Sch	I-2 I8
	Luuc 442	20-	
		es) It Recommendations] ken before student teaching se	emes-

Bachelor of Science in Education Elementary\Middle School

Grades	5-9 - Social Studies	
Freshman 1st Semes		
Course		Hours
Educ 100	Orientation to Educ I	1
Psy 100	General Psychology	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 111 Math Elem Tchrs	1] 3
CORE	[Econ 180 Amer Econ Sys]	3
Psy 120	College Orientation	1
		14
2nd Semes	tor	
Math 120	Math Elem Tchrs II	3
CORE	[Eng 102 Comp II] (Eng 101)	
CORE	[Comm 100 Oral Comm]	3
CORE	[Hist 110 U.S. 1492-1877]	3
Hist	Elective East Asian History	3
Art 220	Art Education	2
		17
Sophomor		
1st Semest	Orientation to Educ II	
	(Priopration to Educ II	1

1st Semest	er	
Educ 200	Orientation to Educ II	1
CORE	[Bio 101 General Biology]	4
Hist 320	U.S.History 1877-present	3
CORE	[Art 110 Art Apprec] (3)	
OR		
CORE	[Mus 110 Music Apprec] (3)	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Select from Area 2B or 2C]	3
		17

2nd Semester

Take C-Base test. Apply for admisson to the Teacher Education Program. If ACT is less than 20, student should retake the ACT.

Psy 305	Developmental Psych	4
Mus 322	Music Elem Schl	2
CORE	[Soc 110 Intro to Sociology]	3
HPER 311	PE in Elem Sch	2
CORE	[Phys 100 Fund of Phys Sci]	5
Educ 401	Computer Software	2
		18

Junior Year

1st Seme	ster
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Pass media competencies.

Student must be tentatively admitted to the Teacher Education Program prior to taking the junior block and all subsequent courses prefixed with Educ.

4
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3
8

2nd Semester

Hist 140	Western Civilization	3
Geog 211	Regions & Nations	3
Educ 340	Language Arts	2
Educ 342	Intro to Develptl Rdg	3
Educ 312	Prob in Tching Arith	3
Educ 311	Science in Elem School	2
		16

Senior Yea		
	tudent teaching.	
Hist	Elective American History	3
Eng 325	Children's Literature	3
Educ 343	Tchg Rdg Middle School	3
Educ 470	Diag & Remedial Rdg	3
Educ 422	Rdg Secondary Schools	2
Educ 412	Mid Sch-Jr Hi-Phil-Org-Curr	2
CORE	[Literature Elective]	3
		19
2nd Semes	ster	
Educ 334	Tchg Soc Stu Sec School	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues	2
Educ 322	Soc Studies Elem Schl	2

(Prerequisites)

OR Psy 412

[Department Recommendations] *Must be taken before student teaching semester.

Educ 442 Student Tchg Mid School

Educ 420 Intro to Counseling* (3)

Bachelor of Science in Secondary Education\Middle School-Teaching Specialty

Meas & Eval Educ\Psy (2)

18-19

Secondary education students who seek middle school certification may use their teaching specialty in secondary education if the teaching specialty is one of the four major areas of middle school certification, i.e., language arts, science, mathematics or social studies. If the student's specialty is not one of the four areas, the student will have to satisfy the course requirements in one of these four areas. Endorsement to one of these major areas includes the following: agriculture 5-9, home economics 5-9, industrial arts/industrial technology 5-9, speech 5-9, and drama 5-9. Students who wish to endorse in these areas must obtain a program of study in these areas from the Dean of the School of Education. Other endorsements that may be utilized at the middle school level are the following: art K-9, Spanish K-9, health K-9, physical education K-9, and music K-9. The suggested order of study below does not include the specialization area. If the student has a specialty in one of the four major areas, he or she can supply the specialty course from their specialty teaching area. Students who wish to create a teaching area in the middle school must obtain a program of study from the Dean of the School of Education.

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Suggested Order of Study

Bachelor of Science in Education Secondary\Midddle School Teaching Specialty

Freshman	Year	
1st Semes	ster	
Course		Hours
Educ 100	Orientation to Educ I	1
Psy 100	General Psychology	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 110 Intro to Coll Math]	
	(or math course appropriate to	0
	area of study)	3
CORE	[Econ 180 Amer Econ Sys]	3
Psy 120	College Orientation	1
CÓRE	[HPER 103 Lifetime Wellness] 2
		16
2nd Seme	ester	

ing area 6
I (Eng 101)] 3
Comm] 3
2-1877 3
a 2B or 2C] 3
18

S	nh	om	oro	Vo	ar
20	pn	om	ore	Te	ar

Sopnomo	re rear	
1st Semes	ster	
Educ 200	Orientation to Educ II	1
CORE	[Bio 101 General Biology]	4
Hist 320	U.S.History 1877-present	3
CORE	[Select from Area 2A]	3
CORE .	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Select from Area 2B or 2C]	3
		17

2nd Semester

Take C-Base test. Apply for admission to the Teacher Education Program. If ACT is less than 20, student should retake the ACT.

20, studer	it snould retake the ACT.		
Psy 305	Developmental Psych	4	
Course ap	propriate to tchg area	6	
CORE	[HPER 101 Physical Activity]	1	
CORE	[Phys 100 Fund of Phys Sci]	5	
Educ 401	Computer Software	2	
		18	

Junior Year

1st Semester

Pass media competencies

Student must be tentatively admitted to the Teacher Education Program prior to taking the junior block and all subsequent courses prefixed with Educ.

Educ 329	Ped Theo Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Educ 302	The Exceptional Child	2
Courses a	ppropriate to tchg area	6
Psy 310	Educational Psychology	2
		18

2nd Semester	
Educ 342 Intro to Dev Reading	3
Courses appropriate to toho area	15

18

Senior Year 1st Semester

Educ 343 Educ 422	Tchg Rdg Middle School Rdg Secondary Schools	3 2 14 19
		19
2nd Seme	ster	
Educ	Specialty Methods Course	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues	2
Educ 412	Mid Sch-Jr Hi-Phil-Org-Curr	2
	3 (-)	
	Meas & Eval Educ\Psy (2)	3-2
	Educ 343 Educ 422 Course ap 2nd Seme Educ Educ 402 Educ 432 Educ 412 Educ 420 OR	Educ 402 Foundations of Educ Educ 432 Critical Issues Educ 412 Mid Sch-Jr Hi-Phil-Org-Curr Educ 420 Intro to Counseling* (3)

Total hours for BSE in Secondary/Middle School Education 142-143

Educ 442 Student Tchng Mid School

(Prerequisites)

[Department Recommendations]

*Must be taken before the student teaching semester.

Bachelor of Science in Education - Secondary Education

The curriculum for secondary education is a joint effort of each department supporting a teaching specialty area and the education department. Program development, program changes and program evaluations for secondary education are done by the Secondary Education Committee which is part of the teacher education governance structure. The work of this committee is further implemented and reviewed by the Teacher Education Council and the education department, which is the governing unit in teacher education. Departments having a teaching specialty submit recommendations regarding specialty programs to the Secondary Education Committee. These recommendations represent the department's adherence to guidelines of learned societies, Missouri DESE guidelines, guidelines from accrediting bodies and from research and accepted practices that make up the knowledge base for secondary programs.

The student who desires to teach in a secondary school may choose to become qualified in a single teaching field with a high degree of specialization or in two different teaching fields with a lesser degree of specialization. Specialties available for secondary school teaching are:

- 1. Art K-12, K-9
- 2. Biology 7-12
- 3. Chemistry 7-12
- 4. Business Education 7-12
- 5. English 7-12
- 6. Mathematics 7-12
- 7. Music K-12, K-9 (Vocal or Instrumental)

- 8. Physical Education K-12, K-9, 7-12
- 9. Physics 7-12
- 10. Social Studies 7-12
- 11. Spanish K-12
- 12. Speech & Theatre 7-12

Along with a teaching specialty, a student may elect a supporting area (a minor) from any one of the above listed teaching specialties.

Plan A: (Double Major)

Plan A is intended for those who desire to qualify as teachers in two different subject matter areas. Each area requires a minimum of 30 semester hours of specific course work which must meet minimum Missouri State Department of Elementary and Secondary Education requirements. Plan A is not available in social science, music, art, Spanish or in programs preparing teachers for both elementary and secondary education. If Plan A is selected, the second teaching field is required. Students may select an adviser in either department chosen as a major or from the department of education.

Plan B: (Single Teaching Field, Comprehensive Major)

Plan B is intended for persons who wish to concentrate teacher preparation in one subject matter area only. Forty or more semester hours are required in the subject matter area or related supporting courses listed in this catalog by department.

Students choosing a single teaching field also may qualify for certification in a second teaching field for grades 7-9 by taking specified courses in the second teaching field. Those interested in certification in a second teaching field for grades 7-9 should see the Dean of the School of Education and Psychology for course requirements.

The Teaching Specialty for Secondary Education

Secondary education students study a teaching specialty in one of the following fields (Plan B) or two of the following fields (Plan A):

art education K-12, K-9 biology education 7-12 business education 7-12 chemistry education 7-12 English education 7-12 mathematics education 7-12 music education K-12, K-9 physical education K-12, K-9, 7-12 physics education 7-12 social studies education 7-12 Spanish education K-12 speech and theatre education 7-12

Students in secondary education must meet the same core requirements as all MSSC students. Depending on the teaching specialty, these students will differ in the order in which they take the Core Curriculum requirements. Each specialty area has a sequence of course requirements that may extend from the first semester of the fourth year.

All students in teacher education must be tentatively admitted to teacher education prior to taking professional education courses. The admission point for teacher education is in the second semester of the sophomore year.

Preparation for admission by the student can begin at any time. The student's ACT score can be entered into the data base. If the ACT score is lower than 20, the test can be retaken anytime prior to applying for tentative admission.

The C-Base should be taken the first semester of the sophomore year.

All students who enter Southern as freshmen are encouraged to take Educ 100, Orientation to Education I during their freshman year and Educ 200, Orientation to Education II during their sophomore year. Secondary students who transfer into MSSC at the admission point into the Teacher Education Program are not required to take these two courses.

For specific content courses for the teaching specialty, students should refer to the catalog.

Suggested Order of Study

Bachelor of Science in Education Secondary\Teaching Specialization

Freshman Year

1st Semester

Follow teaching specialty department recommendations for core courses and teaching specialty courses.

Course		Hours
Educ 100	Orient to Education I	1
Psy 100	General Psychology	3

2nd Semester

Follow teaching specialty department recommendations for core courses and teaching specialty courses.

Sophomore Year

1st Semester

Follow teaching specialty department recommendations for core courses and teaching specialty courses.

Educ 200 Orient to Education II

2nd Semester

Follow teaching specialty department recommendations for core courses and teaching specialty courses

Educ 401	Computer Software	2
Psy 301	Adolescent Psychology (3)	
OR		

Psy 305 Devemntl Psychology* (4) Pass C-Base test for admission.

Verify that ACT score is 20+, Have a 2.5 GPA in the teaching specialty area and a 2.75 cummulative GPA. (This requirement began with the 1991-93 catalog and continues with the 1993-95 catalog.) Get faculty recommendation, write autobiography, and file admission papers for tentative admission.

Junior Year

1st Semester

Pass media competencies.Educ 329Ped Thry, Mthds & Prac4Educ 321Microteaching2Educ 423Classroom Management2Educ 302Exceptional Child2Psy 310Educational Psychology2

Follow departmental recommendations for teaching specialty courses. If recommended by Junior Block instructors and by the teacher education faculty, receive full admission to teacher education

2nd Semester

Follow departmental recommendations for teaching specialty courses.

Senior Year

1st Semester

Follow departmental recommendations for teaching specialty courses.

Apply for student teaching. Educ 420 Intro to Counseling*

2nd Semester

Educ 432	Critical Issues	2
Educ	Tchng Specialty Meth Course	2
Educ 422	Teaching Reading Secondary	2
Educ 462	Student Teaching Secondary	8
Select one		2-3
Educ 412	Mid Sch-Jr Hi-Sch Org -Curr**	* (2)
Psy 412	Test and Measurements (2)	

Educ 402 Foundations of Education

(Prerequisites)

[Department Recommendations]

Educ 420 Intro to Counseling*** (3)

*Psy 305 required for all K-12, K-9 and 5-9 programs

(see senior year first semester)

** Required for all middle school teaching specialty students.

***Must be taken before student teaching.

For additional information contact:

Education Department Office: Taylor Hall 237 Phone: 625-9308

Health, Physical Education and Recreation

Robert E. Young Gymnasium 212, 625-9316

Faculty Nelson - Head, Ballard, Beard, Cade, Conklin, Cooke, Corn, Evans, Frazier, Hernandez, Hobbs, Lantz, Lipira, Oldham, Rutledge, Scheible, Traywick, Turner, Wilson

Students who desire certification as a teacher of physical education may choose to become qualified at either the elementary level, the secondary level or a combination of both. Students planning to major in this field should refer to page 116 where the teacher education program is described. Students planning to teach at both elementary and secondary levels should select the K-12 plan. Those desiring to make physical education one of two teaching fields should prepare under either the K-9 plan or the 7-12 plan. The student will consult the specific department concerned for the requirements of the second teaching field.

Objectives for Physical Education, Grades K-12

The Physical Education curriculum reflects guidelines from the American Alliance for Health, Physical Education, Recreation and Dance, Missouri DESE guideline, accrediting organizations and requirements from the School of Education and Psychology at Missouri Southern State College.

The faculty of the department of HPER have adopted the following objectives for all Physical Education majors. The student will:

- have a strong background in the Missouri Southern State College Core Curriculum and can use the knowledge, skills, and theories therein to become a more effective physical educator?
- trace the history and philosophy of physical education of the United States and other countries and understand the impact that these have had and may have on present and future physical education theory.
- understand human motion from the stand points of functional anatomy, physiology, physics and mathematics, and apply these principles to improve the mechanical efficiency of human movement.

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- demonstrate the skills and knowledge required to construct, analyze and administer instruments of measurement and evaluation commonly utilized in physical education for the cognitive, affective and psychomotor domains.
- demonstrate knowledge of the socilogical aspects of physical activity including cultural, ethnic, and gender differences related to selection and involvement in activities.
- demonstrate knowledge of the psychological aspects of physical activities including motivation and participation, anxiety and stress, and factors promoting or inhibiting aggressive behavior.
- understand human physiology, the physiological effects of exercise and the application of these scientific principles for the improvement of human performance.
- demonstrate knowledge of growth and development, scope and sequence, appropriate teaching techniques, and class organization and management applicable for the elementary physical education program (K-12, K-9).
- demonstrate knowledge of growth and development, scope and sequence, appropriate teaching techniques, and class organization and management (7-12).
- demonstrate knowledge of the Physical Education Competencies and Key Skills for Missouri Schools.
- demonstrate knowledge of the content, scope, implementation and evaluation of health and safety education, growth and developmental characteristics, and emergency care procedures for elementary school children (K-12, K-9).
- 12.demonstrate knowledge to prevent trauma or conditions which adversely affect health or performance, to manage (first aid, evaluation, treatment and rehabilitation) of trauma or other medical problems, to counsel the student in various health related areas including nutrition and personal health habits, and to understand the operation of an athletic training facility (K-12, 7-12).
- demonstrate knowledge of the Comprehensive Health Competencies and Key Skills for Missouri Schools (K-12, K-9).
- demonstrate knowledge and performance of developmental skills, fundamental forms of movement, and the ability to analyze and teach skill performance for elementary age children (K-12, K-9).

- 15. understand the changes in motor behavior over the lifespan, the processes that underlie these changes and the factors that affect and are affected by them, and to use this knowledge to improve the total well being of the child (K-12, K-9).
- 16. demonstrate the ability to develop lessons, units of instruction that parallel stated objectives, to organize classes for effective management, and understand how the physical education curriculum interrelates with the total school program.
- demonstrate knowledge in the principles of planning, implementing, evaluating, identifying high risk areas and sound practices of safety and supervision related to the physical education curriculum.
- demonstrate the ability to adapt physical activities to accommodate needs of special students.
- present detailed technical knowledge and rules relative to activities that are desirable in the physical education program.
- demonstrate ability and teaching progression in numerous physical activities including tennis, badminton, volleyball, racquetball, swimming, archery, bowling, tumbling, wrestling, speedball, softball, soccer, team handball and dance (K-12, 7-12).
- demonstrate knowledge of health-related physical fitness and assess their personal fitness level for each component (K-12, 7-12).
- demonstrate ability and teaching progression in numerous physical activities (K-9).

Bachelor of Science in Education with a Major in Physical Education K-12 One Teaching Field

Semester	Hours
rements (p.35)	48
uc Requirements	51-53
luman Phys & Anatomy	* 5
und of Physical Educ	
activities I*	3
und of Physical Educ	
activities II*	3
heory & Practice of	
Dance & Exercise*	2
he Elem School	
Physical Ed Prog*	3
eaching Elem School	
Physical Ed*	3
֡	rements (p.35) Luc Requirements Luman Phys & Anatomy Lund of Physical Educ Lactivities I* Lund of Physical Educ Lactivities II* Lineory & Practice of Lineory & Exercise* Line Elem School Lineory Elem School

HPER	321	Theory & Analysis of	
		Selected Team Sports*	3
HPER	332	Rhythmic Form &	
		Analysis*	2
HPER	335	History & Philosophy	
		of Physical Ed*	2
HPER	340	Motor Learning in	
		Physical Ed*	3
HPER	342	Kinesiological Approach	
		to Movement*	3
HPER	345	Tests & Measurements	
		in Physical Ed*	2
HPER	365	Socio-Psychological	
		Aspects of Physical Ed*	2
HPER	370	School Health Educ	
		(Elem)*	3
HPFR	375	Adapted Physical Ed*	3 2
HPFR	431	Physiology of Exercise*	2
HPFR	450	Prevention and Care of	-
	100	Injuries*	3
HPFR	470	Administration of Physical	0
THE LIT	470	Educ*	2
Salact	a mi	inimum of two courses	_
		llowing:	
		Theory of Basketball*	2
		Theory of Football*	2
			2
		Theory of Track & Field*	2 2 1
		Theory of Soccer*	1
		Theory of Volleyball*	
		Theory of Baseball*	2
		Certification Requireme	nts
(p. 115	0-12		3
+0 -		129	-13

*See Prerequisites

Bachelor of Science in Education with a Major in Physical Education 7-12 Two Teaching Fields

Semester Hours Core Requirements (p. 35) **Physical Education Requirements** Bio 306 Human Physiology & Anatomy* HPER 251 Fund of Physical Education Activities I* 3 HPER 252 Fund of Physical Education Activities II* 3 HPER 255 Theory & Practice of Dance & Exercise* 2 HPER 321 Theory & Analysis of Selected Team Sports* 3 HPER 335 History & Philosophy of Physical Ed* HPER 342 Kinesiological Approach to 3 Movement* HPER 345 Tests & Measurements in Physical Ed* 2 HPER 365 Socio-Psychological Aspects of Physical Ed* 2 HPER 375 Adapted Physical Ed* 3 HPER 431 Physiology of Exercise* 2 HPER 450 Prevention & Care

of Injuries*

3

Physical Education / 129

		18 16 Au	
HPER 470 Administration of Physical	HPER 431 Physiology of Exercise*	2	2nd Semester
Education* 2	HPER 450 Prevention and Care of		CORE [Eng 102 Comp II] (Eng 101) 3
Select a minimum of two courses	Injuries*	3	CORE [Bio 121 General Zoology] 4 CORE 9
from the following:	Select one of the following:		16
HPER 350 Theory of Basketball* 2	HPER 251 Fund of Physical		Sophomore Year
HPER 351 Theory of Football* 2	Education Activities I*	3	1st Semester
HPER 352 Theory of Track & Field* 2	HPER 252 Fund of Physical		Educ 200 Orientation to Educ II 1
HPER 353 Theory of Soccer*	Education Activities II*	3	HPER 251 Fund of Phys Act I (30 Hrs) 3
HPER 354 Theory of Volleyball* 1	HPER 321 Theory & Analysis of		CORE [PSY 100 Fund of Phys Sci] 5
HPER 360 Theory of Baseball* 2	Team Sports	3	CORE [Core Electives] 9
Education Certification Requirements		20	18
(p. 115-127) 30	*See Prerequisites		On al Compositor
Unrestricted Electives or Second Teach-			2nd Semester Pass C-Base test. Apply for tentative admission
ing Field 10-13	Minor in Coaching		to Teacher Education.
128	Semester H	Houre	HPER 252 Fund of Phys Act II (30 Hrs) 3
*See Prerequisites		iouis	HPER 255 Theory of Dance (30 Hrs) 2
Solid Strong Page 1 and 1 and 1 and 1	Bio 306 Human Physiology &	_	HPER 335 Hist & Phil PE (HPER 251) 2
	Anatomy*	5	Bio 306 Human Phy & Anat (Bio 121) 5
Bachelor of Science in	HPER 150 Rules & Officiating of	2	Psy 310 Educ Psy (Psy 100) 2
Education with a Major in	Team Sports	3	CORE [Core Electives] 3
	HPER 342 Kinesiological Approach	2	17
Physical Education	to Movement*	3	Junior Year
K-9 Two Teaching Fields	HPER 450 Prevention and Care of	2	1st Semester
	Injuries*	3	HPER 310 Elem Sch PE Prog (HPER 252) 3
Semester Hours	Select a minimum of five hours		HPER 321 Team Sports (HPER 252) 3
Core Requirements (p. 35) 51	from the following:	0	HPER 332 Rhy Form & Analy (HPER 252) 2
Physical Education Requirements 33	HPER 350 Theory of Basketball*	2	Psy 305 Developmental Psychology 4
Bio 306 Human Physiology &	HPER 351 Theory of Football*	2	HPER 340 Motor Leam (HPER 310 or 311) 3
Anatomy* 5	HPER 352 Theory of Track & Field*	2	Psy 302 Exceptional Child (Psy 100) 2
HPER 310 The Elem School Physical	HPER 353 Theory of Soccer*		17
Education Program* 3	HPER 354 Theory of Volleyball*	1	On d Commenter
HPER 312 Teaching Elem School	HPER 360 Theory of Baseball*	2	2nd Semester Pass media competencies.
Physical Education* 3		19	HPER 312 Tch Elem Sch PE (HPER 310) 3
HPER 321 Theory and Analysis of	*See Prerequisites		HPER 342 Kinesiology (Bio 306) 3
Selected Team Sports*			HPER 345 Tests & Meas in PE (Psy 310) 2
HPER 332 Rhythmic Form & Analysis* 2	Minor in Athletic Training		Educ 329 Ped Theo Meth & Prac 4
HPER 335 History and Philosophy of	Semester	Hours	Educ 321 Microteaching 2
Physical Education* 2	Bio 306 Human Physiology &		Coaching Theory Course 1-2
HPER 340 Motor Learning in	Anatomy*	5	Educ 423 Classroom Management 2
Physical Education* 3	HPER 220 First Aid	2	17-18
HPER 342 Kinesiological Approach	HPER 342 Kinesiological Approach		Comion Voor
to Movement* 3	to Movement*	3	Senior Year 1st Semester
HPER 345 Tests & Measurements	HPER 431 Physiology of Exercise*	2	Apply for student teaching.
in Physical Education* 2	HPER 450 Prevention and Care		HPER 365 Socio-Psy Aspects of PE
HPER 365 Socio-Psychological	of Injuries*	3	(HPER 252) 2
Aspects of Physical Ed* 2	HPER 451 Advanced Athletic Training*	2	HPER 431 Physiol of Exercise (Bio 306) 2
HPER 370 School Health Ed (Elem)* 3	Select one of the following:		HPER 370 School Health-Elem 3
HPER 431 Physiology of Exercise* 2	Rad 111 Medical Terminology	3	HPER 450 Care/Prev/Injuries (HPER 342) 3
Education Certification Requirements	HPER 385 Nutrition for Human Dev*	3	HPER 470 Adm of PE (20 Hrs HPER) 2 HPER 375 Adapted PE (HPER 252) 3
(p. 115-127) 30		20	HPER 375 Adapted PE (HPER 252) 3 Educ 422 Reading Secondary School 2
Unrestricted Elective or Second	*See Prerequisites		Coaching Theory Courses 1-2
Teaching Field 11-14			18-19
128-131			
*See Prerequisites	Commented Order of Charles		2nd Semester
	Suggested Order of Study		Educ 338 Teaching Health & PE 2
			Educ 401 Computer Software 2
Minor in Physical Education	Bachelor of Science in Educati	on	Educ 402 Foundations of Educ 2
(non-teaching minor)	Major Code 0822		Educ 432 Critical Issues in Educ 2
Semester Hours	Physical Education Major K-12		Educ 464 Student Teaching 8
			(Prerequisites)
Bio 306 Human Physiology & Anatomy* 5	Freshman Year		[Department Recommendations]
	1st Semester	lours	[5 sparting it i i south in characteris]
HPER 335 History & Philosophy of		Hours	
Physical Education* 2	CORE [Eng 101 Comp I]	3	
HPER 342 Kinesiological Approach to Movement* 3	Educ 100 Orientation to Educ I Psy 100 General Psychology	3	
10 1110 101110111	CORE [Core Electives]	9	
HPER 365 Socio-Psychological	Psy 120 College Orientation	1	
Aspects of Physical Ed* 2		17	

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	or of Science in Educa ode 0821	tion	2nd Semester Educ 338 Teaching Health & PE 2 1st Semester Educ 401 Computer Settings 2 1st Semester
Physica	Education Major 7-1:	2	Educ 401 Computer Software 2 HPER 365 Socio-Psych Aspects
			Educ 402 Foundations of Educ 2 HPER 370 Scho Health & Elementary
Freshman			Educ 432 Critical Issues in Educ 2 HPER 431 Physiology of Exercise
1st Semes	ter		Educ 462 Student Teaching 8 Educ 343 Rding in Middle School
Course		Hours	16 HPER 475 Adapted PE (HPER 252)
Educ 100	Orientation to Educ I	1	Electives
CORE	[Eng 101 Comp I]	3	(Prerequisites)
Psy 100	General Psychology	3	[Department Recommendations]
CORE	[Core Electives]	9	2nd Semester
Psv 120	College Orientation	1	Educ 338 Tching Hlth & Physical Ed
1 by 120	College Chemation	17	Bachelor of Science in Education Educ 401 Computer Software
		"	E 1 100 E 1 1 1 1 E 1
2nd Seme	otor		Fdue 420 Critical leaves in Educ
		11 0	Physical Education Major Educ 432 Childal Issues in Educ Educ 442 Student Teaching Elem
CORE	[Eng 102 Comp II (Eng 101		Crades V O Cortification
CORE	[Bio 121 Gen Zoology]	4	
CORE	[Core Electives]	9	This program is an endorsement to a major (Prerequisites)
		16	teaching field. [Department Recommendations]
Sophomo			Freshman Year For additional information contact:
1st Semes			1st Semester Dr. J. Dirk Nelson
	Fund of PE Act I (30 Hrs)	3	Course Hours Office: Young Gymnasium 214
	Orient to Educ II	1	Eng 101 Comp I 3 Phone: 625-9316
CORE	[Psy 100 Fund of Phys Sci]	5	Psy 100 General Psychology 3
CORE	[Core Electives]	9	CORE [CORE Electives] 9
	NEW THIRD STATE OF SHADE	18	Psy 120 College Orientation 1
		199	
2nd Seme	ster		
	Fund of PE Act II (30 Hrs)	3	17 I Sychology
	Theory of Dance (30 Hrs)	2	The state of the s
			2nd Semester Taylor Hall 206, 625-9315
	Hist & Phil of PE (HPER 25		Eng 102 Comp II 3
Bio 306	Human Phy & Anat (Bio 12		Bio 121 General Zoology 4
Psy 310	Educ Psy (Psy 100)	2	HPER 103 Lifetime Wellness 2 Faculty Griffin - Head, Babbitt, Junkin
CORE	[Core Electives]	3	CORE [CORE Electives] 6 Murdock, Paige, Schellenger, Volskay,
		17	15 Wang
Junior Ye	ar		The second of th
1st Semes	ter		Sophomore Year The psychology department offers two
Pass medi	a competencies.		
HPER 321	Team Sports (HPER 252)	3	groce. the bachelor of arts (B.7.)and
Psy 301	Adolescent Psychology	3	Dacrieloi di Science (b.S.). The b.A.
	Ped Theo Meth & Prac	4	b 3 dedrees provide an excellent four
	Microteaching	2	CONE [CONE Electives] 6 tion for students who wish to some advan
	Classroom Management	2	rsy 305 Developmental rsychology 4 and usta degrees in purguit of a cores
	Theory Course	1-2	psychology.
CORE	[Core Electives]	3	2nd Semester
		18-19	HPER 252 Fund of PE Activities II 3 Bachelor of Arts in
			UDED 20F Uiat 9 Dhil DE
2nd Seme	ster		Psy 310 Educ Psy (Psy 100) 2 Psychology
	Kinesiology (Bio 306)	3	CORE [CORE Electives] 9 Semester Ho
	Tests & Meas (Psy 310)	2	16 Core Requirements (p. 35)
Psy 302	Exceptional Child (Psy 100) 2	Foreign Language
	Theory Course	2-4	
Electives	STATE OF STREET	6	1 Sychology Requirements
	BEAR SHEET TO SHEET IN	15-17	LIDED OAS TOO GENERAL PSYCHOLOGY
			HPER 345 Test & Meas PE (Psy 310) 2 HPER 340 Flora (HPER 352) 3 Psy 305 Developmental Psychology (4
Senior Ye	ar		TIPER 310 Eleit Scit Flog (HPER 252) 3
Ist Semes			HPER 321 Team Sports (HPER 252) 3
			THE ETT COL THY TOTAL ATTRICTY (THE ETT EOC)
	tudent teaching.		HPER 340 Motor Learning 3 AND
IL EU 302	Socio-Psy Aspects		Psy 302 Exceptional Child Psych 2 Psy 301 Adolescent (3) 4-6
IDED 15:	PE (HPER 252)	2	15 Psy 320 Applied Statistics for the
TPER 431	Physiology of Ex (Bio 306)	2	Behavioral Sciences*
	Prev/Care/Injuries (HPER 3	342)3	0 10
	Adm of PE (20 Hrs HPER)	2	Page modis competencies
	Reading Secondary School		UDED 310 Tob Flow Cob DE (UDED 310) 3
	Adapted PE (HPER 252)	3	HDED 342 Kingsislagy (Ric 206)
Electives		3	Pey 411 Psychology of Concetion
		17	Educ 521 Wild of each ling
		17	Eddo of Tod Thoo Michi a Tido
			Educ 400 Classroom Management 0 ()B

Educ 423

Classroom Management

Educ 342 Intro to Dev Reading

2 3 17

3

Psy 442 Physiological Psychology

Psy 422 Theories of Personality

Psy 341 Social Psychology

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Psy 451 Learning and Memory	3	Minor in Psychology		Junior Year 1st Semester	
Psy 452 History and Systems of	2	Psy 100 General Psychology	3	Psy 330 Experimental Psy (Psy 325)	5
Psychology Psy 480 Senior Seminar	3	Psy 305 Developmental		Supporting Area	3
Psy 481 Senior Thesis	2	Psychology (4)		Foreign Language	3
Psychology Electives	3 2 2 6	OR		CORE	3
Supporting Area	21	Psy 301 Adolescent Psy (3)			14
Supporting Area		OR	0.4	2nd Semester	
The supporting area requires at lea	st 21	Psy 300 Child Development (3)	3-4	Psy 451 Learn, Mem & Cog (Psy 330)**	3
hours in one of the following areas: n		Psy 320 Applied Statistics for the	2	Psychology Elective	3
economics/finance, English/literature		Behavior Sciences* Psychology Electives*	3 I-12	Supporting Area	6
tory, journalism, law enforcement, mark		Psychology Electives 11	21	Foreign Language	3
management, military science, politica		*Select with approval of a psychological			15
ence, sociology or other area approv		viser.	gy au-	Coniar Voor	
the adviser and the department.		VISCI.		Senior Year 1st Semester	
		A minor in psychology complements	many	Psy 480 Senior Seminar	2
Electives (from psychology or other)	7	majors providing knowledge and skil		Psy 452 History & Systems (Psy 330)*	
	128	cerning personal, interpersonal and		Psychology Elective	3
*Formerly numbered 311		behavior. A psychology adviser w		Core	3
**Formerly numbered 312		students minoring in psychology to		Supporting Area	6 17
		method and content courses approp			17
D 1 1 10 1		their goals.		2nd Semester	
Bachelor of Science				Psy 481 Senior Thesis**	2
in Psychology		Suggested Order of Study	,	Core	6
Semester I	Hours	Suggested Order or Study	_	Psychology or other electives	9
Core Requirements (p. 35)	51			*Offered fell competer only	17
Psychology Requirements	40	Bachelor of Arts		*Offered fall semester only **Offered spring semester only	
Psy 100 General Psychology	3	Major Code 2001		(Prerequisites)	
Psy 305 Developmental Psychology	(4)	Psychology Major		[Department Recommendations]	
OR		Freshman Year			
Psy 300 Child Development (3)		1st Semester			
AND		Course	Hours	Bachelor of Science	
,	1-6	Psy 100 General Psychology	3	Major Code 2000	
Psy 320 Applied Statistics for the		CORE [Eng 101 Comp I]	3	Psychology Major	
Behavioral Sciences*	3	CORE [Math 110, 130 or 131] Psy 120 College Orientation	3	Freshman Year	
Psy 325 Computers in the	-	CORE [Core Electives]	5	1st Semester	
Behavioral Sciences	5		15	Course	Hours
Psy 330 Experimental Psychology** Psy 411 Psychology of Sensation	3			Psy 100 General Psychology	3
and Perception		2nd Semester	2	CORE [Eng 101 Comp I] CORE [Math 110, 130 or 131]	3
OR		CORE [Eng 102 Comp II (Eng 101)] Psy 305 Developmental Psychology	3 4	Psy 120 College Orientation	1
Psy 442 Physiological Psychology	3	Bio 101 General Biology	4	CORE	5
Psy 341 Social Psychology		CORE	5		15
OR		and the second series and the	16		
Psy 422 Theories of Personality	3			2nd Semester	2
Psy 451 Learning and Memory	3	Sophomore Year		CORE [Eng 102 Comp II (Eng 101)] CORE [Bio 101 General Biology]	3
Psy 452 History and Systems of		1st Semester		CORE	5
Psychology	3	Psy 320 Applied Stat (Psy 100 or 110) Psy 411 Sensation and Perception**) 3	Psy 305 Developmental Psychology	4
Psy 480 Senior Seminar	2	OR			16
Psy 481 Senior Thesis	2	Psy 341 Social Psychology	3		
Psychology Electives	6	Supporting Area	3	Sophomore Year	
Supporting Area	21	CORE	5	1st Semester Psy 320 Applied Statistics (Psy 100)	3
		Foreign Language	3	Psy 411 Sensation and Perception**	3
The supporting area requires at lea			17	OR	
hours of one of the following areas: bid		2nd Semester		Psy 341 Social Psychology*	3
chemistry, computer science, mathem		Psy 325 Comp in Behav Sci (Psy 320))** 3	Supporting Area	3
physics or other science area approv	ed by	Psy 442 Physiological Psychology*		CORE	8
the adviser and the department.		OR			17
A DESCRIPTION OF THE PROPERTY		Psy 422 Theories of Personality**	3		
Additional hours of science	9	Psychology Elective	3		
Electives (from psychology or other)		Elective	3		
F db d 044	128	Foreign Language	15		
*Formerly numbered 311					
**Formerly numbered 312					

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2nd Semester Psy 325 Comp in Behav Sci (Psy 320)**	* 3
Psy 442 Physiological Psychology* OR	
Psy 422 Theories of Personality** Psychology Elective Elective Science	3 3 3 3
	15
Junior Year 1st Semester	
Psy 330 Exper Psychology (Psy 325) Supporting Area Science	5 3 3
CORE	3 14
2nd Semester	
Psy 451 Learn, Mem & Cog (Psy 330)** Psychology Elective Supporting Area	3 3 6
Science	3 15
Senior Year 1st Semester	
Psy 480 Senior Seminar Psy 452 History and Systems (Psy 330)	2
Psychology Elective CORE	3
Supporting Area	17
2nd Semester	0
Psy 481 Senior Thesis CORE	2
	17
*Offered fall semester only **Offered spring semester only (Prerequisites)	
[Department Recommendations]	

Other Requirements

Ten hours are required from math, computer science, chemistry, biology and/or physics, in addition to all other requirements. These replace the foreign language requirement.

For additional information contact:

Dr. Betsy Q. Griffin Office: Taylor Hall 209 Phone: 625-9306

Course Descriptions

Education (Educ)

Educ 010 (F, S) 2 hrs. cr.

Techniques of Reading

Designed to improve and enhance reading skills. Vocabulary, comprehension and flexibility for rate are addressed in addition to the introduction of learning strategies involved in the successful transition from high school to college level of study. Provides opportunities for improving reading and study skills as well as for developing reading enrichment.

Educ 100 (F, S) 1 hr. cr.

Orientation to Education I

An orientation to teacher education required of freshmen who select elementary or secondary education as their major field. A 15 clock hour field based component is included.

Educ 200 (F, S) 1 hr. cr. Orientation to Education II

An extension of Educ 100. Classroom experiences emphasized as well as the conditions for teaching. A 15 clock hour field based component is included.

Educ 302 (F, S) 2 hrs. cr. The Exceptional Child

A series of awareness experiences dealing with the added complexities an exceptional child presents to a regular classroom teacher. Includes characteristics of the exceptional child, resources in the community and legislation which determines school policy. Prerequisite: Psy 100.

Educ 311 (F, S) 2 hrs. cr. Science in the Elementary School

Designed to help teacher trainees (1) comprehend the basic notion of science and how children go about learning science, (2) develop materials suitable for demonstration, discovery and inquiry lessons and (3) develop the instructional skills necessary to achieve the first two goals. Students will develop lesson plans and learning kits and will present a teaching episode. Prerequisites: Courses in biological and physical sciences and Educ 321 Microteaching.

Educ 312 (F, S) 3 hrs. cr. **Problems of Teaching Arithmetic in Elementary Schools**

(See Math 312)

Application of principles of learning and techniques of presentation. Techniques for diagnosis and remediation are treated as they relate to the elementary classroom. Prerequisite: 3 hrs. of math.

Educ 316 (F - Demand) 2 hrs. cr. Foundations, Issues and Trends in Early Childhood Education

Survey designed to acquaint the prospective teacher of young children with the historical, philosophical, psychological and social foundations of early childhood education. Designed to present current issues and trends associated with early childhood programming and consequent role expectations of prospective teachers. May be taken concurrently with the junior block courses.

Educ 317 (S - Demand) 3 hrs. cr Curriculum in Early Childhood Education

Curriculum development in early childhood education, with special emphasis on various program models and curriculum designs currently used at the early childhood level; the formulation of developmentally appropriate goals for and curriculum content of educational programs for young children; and models of classroom management in early childhood education. Prerequisite: Educ 316.

Educ 318 (F - Demand) 3 hrs. cr. Early Childhood Methods and Materials

Background in teaching strategies and materials for the young child. Fundamentals of designing developmentally appropriate small group, large group and individual learning experiences for young children; and appropriate teaching methods and materials at the early childhood level. Prerequisites: Educ 316 and Educ 317, Psy 100 or Psy 300. Must be taken concurrently with Educ 319.

Educ 319 (F - Demand) 2 hrs. cr. **Practicum I in Early Childhood Education**

Supervised participation in teaching on the early childhood level in the MSSC Child Development Center for a minimum of 64 clock hours. Students will design and implement small group, large group and individual learning experiences, develop appropriate materials for children's use and practice appropriate teaching strategies for young children. Prerequisites: Educ 316, Educ 317, Psy 100 and 300. Must be taken concurrently with Educ 318.

Educ 321 (F, S) 2 hrs. cr. Microteaching

A required part of Educ 329 to be taken concurrently. Short teaching episodes are prepared, taught and analyzed via videotape. The basic concern is with the demonstration of effective teaching skills.

Educ 322 (F, S) 2 hrs. cr. **Teaching Social Studies in Elementary School**An introduction to the instructional materials and methods of teaching social studies in the elementary school.

Educ 323 (S - Demand) 2 hrs. cr. Utilizing Family and Community Resources for the Young Child

Designed to acquaint the prospective teacher of young children with the needs and concerns of families rearing young children, methods of involving parents in the education of their children, and knowledge of community resources for families with young children.

Courses • Education /133

Educ 324 (F, S) 3 hrs cr Introduction to Special Education

Introduction to the three areas of special education (LD, MH, BD). This course provides the basis of understanding necessary to learn and apply the methodologies needed for each of these

three areas of exceptionalities. A survey of research will be provided. Prerequisites: Educ 302, Psv 100 and Psv 305.

Educ 329 (F, S) 4 hrs. cr. Pedagogical Theory, Methods and Practices Examines the theoretical basis for the decision making model of the teacher education program. Provides the methodological basis for making pedagogical decisions concerning lesson design, identification of learning styles and assessment techniques. Microteaching experiences provide an opportunity to practice methods and techniques for teaching. Thirty-two hours of junior internship in the elementary and secondary school classroom provides an opportunity to refine theory into practical applications.

2 hrs. cr. Educ 332 (S) Teaching English and Language Arts in Secondary School

An introduction to the instructional materials and methods of teaching English, speech and foreign language. Part of the Professional Semester.

Educ 333 (S) 3 hrs. cr. Teaching Science in Secondary School

An introduction to the instructional materials and methods of teaching science. Part of the Professional Semester.

Educ 334 (S) 2 hrs. cr. Teaching Social Science in Secondary School An introduction to the instructional planning, materials and methods of teaching social science. Part of the Professional Semester.

Educ 335 (S) 2 hrs. cr. **Teaching Music in Secondary School**

An introduction to the instructional planning, materials and methods of teaching music. Part of the Professional Semester.

Educ 336 (S) Teaching Business in Secondary School An introduction to the instructional planning, ma-

terials and methods of teaching business. Part of the Professional Semester.

Educ 337 (F, S) 2 hrs. cr. Teaching Art in Secondary School

An introduction to the instructional planning, materials and methods of teaching art. Part of the Professional Semester.

2 hrs. cr. Educ 338 (F, S) Teaching Health and Physical Education in **Secondary School**

An introduction to the instructional planning, materials and methods of teaching physical education and health. Part of the Professional Semester.

Educ 339 (S) **Teaching Mathematics in Secondary School** An introduction to the instructional planning, materials and methods of teaching mathematics. Includes brief survey of the history of algebra and trigonometry. Part of the Professional Semester. Will not count toward a major in mathematics.

Educ 340 (F, S)

Language Arts

Foundation course for development of understanding attitudes necessary to teach written and oral communication at the elementary level.

2 hrs cr

Educ 342 (F, S) Introduction to Developmental Reading

First course in reading methods. Different approaches to teaching reading are studied and compared to individual learning styles of children. Can be taken with junior block.

Educ 343 (F, S) 3 hrs. cr. **Teaching Reading in the Middle School**

Follows the introductory course in reading. Needs of the middle school age student population are addressed. Emphasis on assessing student needs, individualizing programs based on needs, reading in the content areas, study skills and recreational reading as a lifetime habit. Course can be taken concurrently with Educ 470.

Educ 344 (S) 2 hrs. cr. Teaching Speech and Theatre in Secondary School

Techniques, methods and course content used in teaching speech and theatre. Part of the Professional Semester. Prerequisite: Admission to teacher education.

Educ 345 (S) 2 hrs. cr. Teaching Foreign Language in Secondary Schools

An introduction to the instructional materials and the methodology used in the teaching of foreign languages at the secondary level.

2 hrs. cr. Corrective Reading Instruction for Classroom **Teachers**

Acquaints the preservice teacher seeking certification in remedial reading, with commercially prepared informal diagnostic instruments, attitude and interest inventories, prescriptive measures, anecdotal records and strategies for corrective reading instruction within the regular classroom for children at risk. Prerequisites: Educ 342, Educ 343.

Educ 401 (F, S) 2 hrs. cr. Use of Computer Software in the Classroom Use of microcomputers, with emphasis on evaluation, selection and uses of educational software.

Educ 402 (F, S) 2 hrs. cr. **Foundations of Education**

Historical, philosophical and sociological aspects of American education. Emphasis on philosophical approaches to education theory and practice and application of the teaching-learning theory and practice.

Educ 403 (F) 3 hrs. cr. **Methods of Teaching the Mentally**

Designed to help the prospective or in-service teacher understand mental retardation and learn to work effectively with retarded learners. Includes appropriate curriculum, individualized program development and teaching strategies. Prerequisite: Educ 302 and Educ 324.

Educ 404 (S) 3 hrs cr Methods of Teaching Children with Learning

Designed for the prospective or in-service teacher of learning disabled students. Diagnosis, evaluation, programming, instructional approaches, instructional strategies and materials appropriate for use with learning disabled students. Prerequisite: Educ 302 and Educ 324.

Educ 405 (F) 3 hrs. cr. **Methods of Teaching Children with Behavioral Disorders**

Establishes a teaching rationale utilizing a precision individualized teaching strategy which enables the emotionally disturbed learner to profit more fully from school experiences. Prerequisite: Educ 302 and Educ 324.

Diagnostic and Prescriptive Teaching

Use of formal test results to design specific level tests necessary to develop individualized educational plans (IEP's) for handicapped or nonhandicapped learners. Prerequisites: Educ 302 and Educ 324. Educ 474 is strongly recommended.

Educ 408 (F - Demand) 5 hrs. cr. Assessment in Early Childhood

An in-depth study of systematic observation, testing tools and screening instruments will be provided. Supervised administration, scoring and interpretation of these assessments in early childhood education. In addition to 3 hrs. of lecture per week, students will be assigned to an early childhood setting for 4 clock hours a week to utilize systematic informal observational techniques which will culminate in a written case study report. Prerequisites: Educ 316 and 317.

Educ 409 (S - Demand) 2 hrs. cr. Topics in Early Childhood Education: Language Development and Emergent Literacy

Designed to provide the prospective early childhood teacher with a study of current practices and research in the areas of language development of the young child and issues of emergent literacy. Requires the completion of a major paper and an oral presentation to fellow students and interested faculty based on a review of literature. Inherent in the course is a study of the development stages of young children and the constructivist theory of learning.

2 hrs. cr. Middle School and Junior High Philosophy, **Organization and Curriculum**

Focus is on effective teaching and learning strategies for the Middle School and Junior High students. Knowledge of teaching and curricular methods suitable to students in the Middle School and Junior High school and a comprehension of the nature of the above students both developmentally and academically are highlighted. Designed for education majors seeking middle school certification (Grades 5-9) and for others interested in curriculum and instruction. Prerequisite: Admission to teacher education.

134 / Courses • Physical Education

3 hrs. cr.

Introduction to Counseling

Survey of interpersonal communication skills, counseling philosophies, methods, principles and practices. Designed for the classroom teacher as well as the specialist in counseling or special educator. Intended for working with both students and parents.

Educ 422 (F, S)

Teaching Reading in Secondary Schools Research based and supported teaching/learning strategies utilized in effective lesson design in the content area classroom. Develops an awareness of the role of reading to content area classroom instruction. Presents strategies and materials utilized in diagnostic/prescriptive teach-

Educ 423 (F, S)

2 hrs. cr.

Classroom Management

Concepts, skills and models, such as behavior modification, for developing a personalized threedimensional approach to behavior and classroom management. How to prevent discipline problems, what to do when a problem occurs and what to do to decrease the possibility of problems recurring. Approaches include behavior modification, assertive discipline, desist techniques, reality therapy and other management techniques. To be taken concurrently with Educ 329.

Educ 430 (F)

3 hrs. cr.

Language Development of Exceptional Children

Required for certification in special education and recommended for teachers of students focusing on early childhood education. Basic structures of language, normal sequence of language acquisition and characteristics of language disabilities. Strategies suggested for both assessing and remediating language delays or disorders.

Educ 432 (F, S)

2 hrs. cr.

Critical Issues in Education

Exploration of current problems with special regard to legal and professional role of school personnel, their relationship to federal and state governments and to local school districts; certification, salary schedules, retirement and other benefits, professional organizations for teachers, relationship with administration, pupils, parents and the community. Prerequisite: Admission to teacher education. Offered in the Professional Semester.

Educ 435 (S)

3 hrs. cr.

Materials and Methods of Individualizing Instruction

Concepts, methods and materials for implementation of individual instruction. Useful for those designing learning programs for exceptional children. Prerequisites: Psy 310 and Educ 329.

8 hrs. cr.

Student Teaching-Elementary

Supervised participation on the elementary level in an assigned off-campus school site. The elementary student teaching experience is based on 50 full teaching days (10 weeks) and requires the student teacher to demonstrate his/her ability to be an entry-level, effective decision making teacher. Arrangements for placement are to be made in the semester preceding the actual student teaching block. Prerequisites: Please see Requirements for Admission to Student Teach-

Educ 444 (F. S)

Student Teaching-Special Education

Supervised teaching in a special education setting in an assigned off-campus site. Course assignments consist of 50 full teaching days (ten weeks) and require the students to demonstrate their ability to be entry-level effective decision making teachers. Arrangements for placement are to be made in the semester preceding the actual student teaching block. The student will be required to divide the 10 week experience into two segments: Five weeks at the elementary level and five weeks at secondary level. Prerequisite: Please see Requirements for Admission to Student Teaching.

Educ 446 (F, S)

3 hrs. cr.

Practicum in Special Education

Clinical experience in special education settings with one of three exceptional populations; learning disabled (LD), mentally handicapped (MH) or behaviorally disordered (BD) learners. Must be preceded by the appropriate methods course for each of the three areas of exceptionalities. A practicum experience is required for each of the three areas of exceptionalities (LD, MH and BD). Prerequisites: Educ 302, Educ 324 and the appropriate methods course for each practicum taken, i.e., Educ 403, Educ 404 and/or Educ 405.

Student Teaching-Secondary

Supervised teaching on the secondary level in an assigned off-campus school site. The secondary school teaching experience is based on 50 full teaching days (ten weeks) and requires the student teacher to demonstrate his/her ability to be an entry-level, effective decision making teacher. Arrangements for placement are to made in the semester preceding the actual student teaching block. Prerequisites: Please see Requirements for Admission to Student Teaching.

Educ 464 (F, S)

Student Teaching-EL-SEC (K-12)

Supervised teaching on the secondary and elementary levels in assigned off-campus school sites. The K-12 teaching experience is based on 50 full teaching days (ten weeks) and requires the student teacher to demonstrate his/her ability to be an entry-level, effective decision making teacher. The student will be required to divide the 10 week period into two segments: Five weeks at the elementary level and five weeks secondary level. Arrangements for placement are to be made in the semester preceding the actual student teaching block. Prerequisites: Please see Requirements for Admission to Student TeachEduc 470 (F, S)

3 hrs. cr.

Diagnostic and Remedial Reading

Prepares the beginning remedial reading teacher and the regular class teacher to deal with remedial reading problems. Emphasis on diagnosis of problems more clinical in nature with techniques, materials and management being stressed. Prerequisites: Educ 342, Educ 343 or may be taken concurrently with Educ 343.

Educ 471 (F)

3 hrs. cr.

Practicum in Diagnosis of Reading Difficulties

Practice of administering, interpreting and reporting of diagnostic test results of reading difficulties. Prerequisites: Educ 342 or Educ 422, Educ 343, Educ 470 and Educ 474 or Psy 474.

Educ 472 (S)

3 hrs. cr.

Practicum in Remediation of Reading Difficulties

Practice of using and reporting results of remedial methods in a case study of reading difficulties. Prerequisites: Educ 342 or Educ 422, Educ 343, Educ 470, Educ 471.

Educ 474 (S)

Educational-Psychological Testing in Special Education

Comprehensive study of the various psychoeducational assessment techniques for diagnosis of learning problems of exceptional children, including educational, intelligence and psychomotor. Emphasis on translating assessment data to remedial programs. (Same as Psy 474). Prerequisites: Educ 302, Psy 310.

Educ 498 (Demand)

Seminar in Problems of Education

A weekly seminar for upper division majors. Credit hours determined by the department each semester. Covers specialized knowledge and/or current research in the discipline. Topics vary by semester and situation. Prerequisite: Advanced standing and consent of department head.

Educ 499 (F, S)

Independent Study

Structured by the adviser with approval of department head. Prerequisite: Advanced standing in the major field and approval of adviser and department head.

Health, Physical Education, and **Recreation (HPER)**

HPER 100 (F)

1 hr. cr.

Individual Physical Education

Adapted physical activity based on needs and ability of student. Students with certified medical disabilities may meet Core Curriculum requirement for physical education activity by completing this course. Note: MS 111 may be used in place of HPER 101 to fulfill this Core requirement.

Courses • Physical Education /135

HPER 101 (F, S) 1 hr. cr. Introduction to Physical Activities

Fundamental skills in individual or dual physical activities. Required course for Core Curriculum. Course meets twice each week. Note: MS 111 may be used in place of HPER 101 to fulfill this Core Curriculum requirement.

HPER 103 (F, S) **Lifetime Wellness**

Contemporary information about the beneficial effects of a positive health life-style and how to implement and live such a life-style. Required course for Core Curriculum.

2 hrs. cr.

HPER 150 (F, S) 3 hrs. cr. **Rules and Officiating of Team Sports**

Knowledge and skills for officiating basketball, volleyball, softball, baseball and football; officiating laboratory required in some areas. Open to all students.

HPER 160 (F) 3 hrs. cr. **Personal Health**

Health problems of the individual, body mechanics, nutrition, drugs and drug abuse, sex hygiene, mental hygiene and the cause and prevention of common diseases. Not recommended for elementary education majors.

HPER 220 (S) 2 hrs. cr. First Aid

Designed to complete the standard course of the American Red Cross in First Aid.

HPER 222 (F, S) 1 hr. cr.

Varsity Activities: Cheerleading

Practice for cheers, chants and stunts. Open only to MSSC cheerleaders; class meets twice a week.

3 hrs. cr. HPER 251 (F) **Fundamentals of Physical Education Activities I**

Study of the skills and understanding of selected activities: games, sports and individual activities commonly found in the school program. Students must demonstrate minimum levels of proficiency in various activities or may be required to enroll in an activity course in any area of insufficiency. Enrollment restricted to physical education majors and minors. Prerequisite: 30 hrs.

HPER 252 (S) 3 hrs. cr. **Fundamentals of Physical Education**

Skills and understanding of selected activities: sports, gymnastics and tumbling. Students are required to demonstrate minimum levels of proficiency in the various activities or may be required to enroll in an activity course in any area of insufficiency. Enrollment restricted to physical education majors and minors. Prerequisite: 30

HPER 255 2 hrs. cr.

Theory and Practice of Dance and Exercise Provides the prospective secondary physical education major with fundamentals necessary to teach areas of dance and exercise. Performance in the basic fundamental rhythms, aerobic dance, exercises and choreographing rhythmic routines are included. Prerequisite: 30 hrs.

HPER 305 (S) 2 hrs. cr. Aging and Health

Course investigates the health status of the elderly in the United States, how the older population has changed from the past and how it may change in the future. Explore how exercise can retard some to the effects of aging. Prerequisites: HPER 103, Bio 101 or Bio 121.

HPER 310 (F) 3 hrs. cr. The Elementary School Physical **Education Program**

Procedures and techniques for planning the curriculum for elementary school physical education. Prerequisite: HPER 252, physical education majors only.

HPER 311 (F, S) 2 hrs. cr. Physical Education for the Elementary School Methods and materials needed for directing games, skills, rhythm and stunts for the elementary school child. Designed for students who are candidates for the elementary level teaching certificates.

HPER 312 (S) 3 hrs. cr. **Teaching Elementary School Physical**

Analysis of basic movement patterns, basic skills, rhythmic and game activities with detailed explanations of presentation to the elementary school child. Prerequisite: HPER 310 physical education majors only.

HPER 321 (F) 3 hrs. cr. Theory and Analysis of Selected Team Sports Professional course for physical education teachers with emphasis on organizing and performing of selected team sports. Prerequisite: HPER 252.

HPER 325 (F, S) Internship in Physical Therapy Procedures Observation and participation in physical therapy procedures for patients in a medical facility. Prerequisites: One year of athletic training work, junior standing and approval of departmental committee.

HPER 332 (F) 2 hrs. cr. **Rhythmic Form and Analysis**

Analysis of dance forms showing how complex music and dance forms are evolved. Prerequisite: HPER 252.

HPER 335 (S) 2 hrs. cr. History and Philosophy of Physical Education

Changing role of physical education as indicated by its historical past and as evidenced through the influence of the various philosophies. Prerequisite: HPER 252 or currently enrolled in 252.

HPER 340 (F) 3 hrs. cr. Motor Learning in Physical Education

Study of motor learning to provide the teacher with the background necessary for identification of physical, mental, social and emotional development of children and their effect on behavior movement. Recommended for teachers working with children with special problems. Prerequisite: HPER 310 or 311.

HPER 342 (S) 3 hrs. cr.

Kinesiological Approach to Movement

A mechanical and kinesiological approach to the movement of individuals in various activities. Prerequisite: Bio 306 or equivalent.

HPER 345 (S) 2 hrs. cr. Tests and Measurements in Physical Education

Designed to train the prospective physical education teacher in the techniques of measuring and evaluating performance. Includes preparation and administration of skill and written tests along with statistical procedures for data analysis. Prerequisite: Psy 310.

HPER 350 (S) 2 hrs. cr.

Theory of Basketball Organization and management of the secondary school basketball program. Systems of offense and defense in basketball. Study of rules, training schedule, discussion of problems arising during training and regular playing season. Prerequisite:

HPER 351 (F) 2 hrs. cr. Theory of Football

Attention to team play, systems of offense and defense, field strategy, discussion of rules, training and equipment. Prerequisite: 60 hrs.

HPER 352 (S) 2 hrs. cr.

Theory of Track and Field Organization and administration of meets, coaching, physical conditioning and training for each event in track and field programs. Prerequisite: 60

1 hr. cr.

Theory of Coaching Soccer

Organization and management of soccer competition. Systems of offense and defense, rules, strategy and fundamentals of soccer are studied. Prerequisite: 60 hrs.

1 hr. cr.

Theory of Coaching Volleyball

Organization and management of volleyball competition. Offensive and defensive systems, rules, strategy, drills and fundamentals are studied. Prerequisite: 60 hrs.

HPER 360 (F) 2 hrs. cr. Theory of Baseball

Organization and management of a school baseball program including individual techniques, team play and problems in coaching of baseball. Prerequisite: 60 hrs.

HPER 365 (F, S) 2 hrs. cr. Socio-Psychological Aspects of Physical Education

Behavior exhibited in the learning of skills and physical performance related to sociological and psychological concepts connected with the demands of physical activities. Group and individual activities and conflicts in sport are analyzed; the effect of sports on society is also studied. Prerequisite: HPER 252.

136 / Courses • Psychology

School Health Education

Study of the content, facilities and equipment needed for teaching school health and safety. Should be taken by all elementary education majors in the place of HPER 160. Separate sections on health and nutrition programs for children for elementary majors. Prerequisite: 5 hrs. biol-

HPER 375 (F)

3 hrs. cr.

Adapted Physical Education

Course provides information and practices to assist professionals in designing and implementing appropriate physical education programs for individuals with disabilities. Prerequisite: HPER 252 or permission of instructor.

HPER 385 (F)

3 hrs. cr.

Nutrition for Human Development

Nutrition associated with human development and performance, physiological and biochemical bases of nutrient absorption and utilization. Particular attention to evaluating and developing appropriate nutrition strategies for optimal child development and exercise performance. Prereguisites: Bio 101 or Bio 121.

HPER 395 (F, S)

2 hrs. cr.

Practicum in Well ness

Course for students to perform duties in the Missouri Southern State College Wellness Program. Experience will provide the student with the opportunity to apply skills and knowledge in the wellness program. Student and faculty supervisor will develop a contractual agreement for specific learning experiences in the practicum. Prerequisites: HPER 103 and HPER 345.

HPER 431 (F)

2 hrs. cr.

Physiology of Exercise

Course for students already having prerequisite knowledge of human physiology. Emphasis on human responses to varying levels of physiological conditioning and the environment within which the exercise is taken. Includes physiological principles to better understand human physiology under exercise stress. Prerequisite: Bio 306.

HPER 450 (F, S)

3 hrs. cr.

Prevention and Care of Injuries

Designed to provide knowledge related to prevention, care and rehabilitation of injuries. Laboratory experiences included. Prerequisite: **HPER 342.**

HPER 451 (S)

2 hrs. cr.

Advanced Athletic Training

A study of professional relationships, pharmacology, special problems in athletics, exercise programs and specific injuries to the upper and lower extremities. Practical learning experiences included. Prerequisite: HPER 450.

HPER 470 (F)

Administration of Physical Education

Organization and management of health and physical education in schools, scheduling, personnel, curriculum, finances, equipment and facilities. Study of intramural program. Prerequisite: 20 hrs. HPER.

HPER 498 (Demand)

1-3 hrs. cr.

Seminar in Health or Physical Education

A thorough study of an advanced problem in health or physical education for selected students. Prerequisite: Senior standing, permission of department head.

HPER 499 (F, S)

1-3 hrs. cr.

Independent Study

Research of a problem or field study relating to physical education; material, content, credit and schedule to be arranged by the department head. Prerequisite: Senior standing, 3.0 GPA in major and permission of department head.

The following courses may be repeated three

·	tillico.			
(Course No.	Н	ours (cr.
+	HPER 161 (F) — Varsity Footba	all	1 hr.	cr.
H	HPER 162 (F) - Varsity Basket	tball	1 hr.	cr.
	HPER 163 (F) - Varsity Volley			
	HPER 171 (F) - Varsity Cross C			
	HPER 172 (S) - Varsity Track a			
+	HPER 180 (S) — Varsity Golf		1 hr.	cr.
	HPER 182 (S) - Varsity Baseb	all	1 hr.	cr.
	HPER 183 (S) - Varsity Softba		1 hr.	cr.
	HPER 191 (F) - Varsity Socce		1 hr.	cr.
	HPER 192 (S) - Varsity Tennis		1 hr.	cr.
1	HPER 250 (S) - Dance and Ex	ercise	1 hr.	cr.
H	HPER 261 (F) — Elementary Swi	imming	1 hr.	cr.
	HPER 292 (F) — Fitness and			
	Weight Training	1500	1 hr.	cr.
	3	1000		

Psychology (Psy)

Psy 100 (F, S)

General Psychology

Introductory course stressing the importance of the psychological mechanisms underlying all human behavior. Satisfies the Core Curriculum requirement.

Psy 100 (F)

3 hrs. cr.

3 hrs. cr.

General Psychology-Honors

Basically the same topics as general psychology above. Designed and specially taught for honors students. Other students permitted with consent of instructor.

Psy 105

Self-Awareness and Career Planning

Materials and methods to help students investigate their present lifestyles including concrete methods of decision making and goal setting. Concentrated career/vocational choice sessions will help students determine an appropriate career. Offered during the second half of each semester. No credit toward psychology major.

Psy 120 (F, S) **College Orientation** 1 hr. cr.

A requirement for all incoming freshmen. Provides a small group setting for open communication between students in an informal situation. Content focuses on practical knowledge necessary for academic survival, adviser assignment and current issues of concern. Regular course withdrawal procedures do not apply. No credit toward psychology major.

Psy 201

1 hr. cr.

Psychology 201

Theory and methods of telephone crisis line (hotline) paraprofessional functioning: interview skills, ethics, dealing with specific types of callers and problems, resource review and procedures and rules of Joplin Crisis Intervention, Inc. One hour lecture each week. Prerequisites: Sophomore standing and psychology major, or advance permission of instructor.

Psy 202 (F, S) 1 hr. cr.

Psychology 202 Crisis Intervention Practicum A continuation of Psy 201, Crisis Intervention. For one to three semesters, students function as Joplin Crisis Intervention paraprofessionals, attending JCI meetings and meeting with their faculty supervisor, as a group, once a month. Prerequisite: Psy 201.

Psv 221 (F)

Psychology of Personal Adjustment

Selected principles of adjustment, ways of improving adjustment and research of practical value. Some emphasis on assertion skills. Strongly recommended as a second course (following Psy 100) for psychology majors.

Psy 298 (Demand)

1 hr. cr.

Special Topics in Psychology

Special topics in psychology not normally included in other courses. Prerequisites to be determined by the department.

Psy 300 (F, S)

3 hrs. cr.

Child Development

Behavior and growth patterns of children from conception to puberty. Psychological findings are presented which are relevant to how children learn, solve problems and function in home and school environments. Prerequisite: Psy 100.

Psy 301 (F, S)

3 hrs. cr.

Adolescent Psychology

Development of the attitudes, interests, problems and adjustment of the adolescent. A foundation for the proper evaluation of adolescent behavior. Prerequisite: Psy 100.

Psy 302 (F, S)

3 hrs. cr.

The Exceptional Child

A series of awareness experiences which deal with the added complexities an exceptional child presents to a regular classroom teacher. Includes characteristics of the exceptional child, resources in the community and legislation which determines school policy. Prerequisite: Psy 300 or Psy

Psy 305 (F, S)

4 hrs. cr.

Developmental Psychology

Various aspects of human development from conception, infancy, childhood, transescence to adolescence will be examined, including, physical, emotional, social and cognitive development. Emphasis will be given to theoretical frameworks and their practical implications. Cross-cultural variety will be included wherever appropriate. Prerequisites: Psy 100. No credit will be given if Psy 300 or Psy 301 have been completed.

Courses • Psychology / 137

Psy 310 (F, S)

3 hrs. cr.

Educational Psychology

Psychological problems involved in education and the practical application of psychological principles of teaching. Special emphasis on measurement, the nature of learning and the environmental influences of behavior. Prerequisite: Psy 100.

Psy 320 (F, S)

3 hrs. cr.

Applied Statistics for the Behavioral and **Natural Sciences**

Includes descriptive and inferential techniques. Emphasis on the analysis and interpretation of data. Prerequisites: Psy 100 and Math 110, 130 or 131.

Psv 325 (S)

Computers in the Behavioral Sciences

Applications of computers in he behavioral sciences with an emphasis on statistical analysis, data collection and report generation. Prerequisite: Psy 320.

Psy 330 (F, S)

5 hrs. cr.

Experimental Psychology

The research process is the foundation for knowledge in the field of psychology. Laboratory course that stresses the acquisition of basic skills in conceiving and carrying out research, as well as analyzing results and writing reports in a professionally acceptable manner. Prerequisite: Psy

Psy 341 (F)

3 hrs. cr.

Social Psychology

Introduction to the study of individuals' thoughts, feelings and behaviors as they are influenced by their social environment, including interpersonal, intragroup and intergroup influences. Prerequisite: Psy 100.

Psy 382 (S)

3 hrs. cr.

Introduction to Behavior Management Techniques of modifying human behavior through

principles developed by learning psychology. Emphasis on design and implementation of behavioral strategy in the laboratory as well as practical settings. Prerequisite: Psy 100.

Psv 411 (S)

3 hrs. cr.

Psychology of Sensation and Perception Includes classical and modern psychophysical techniques. The physiology of various sensory

system, e.g. vision and audition, are examined in order to appreciate the nature of perception. Prerequisite: Psy 100.

3 hrs. cr.

Psy 412 (F, S) Measurement and Evaluation in Education and Psychology

Theory and problems of measurement and evaluation. Practice in analyzing and interpreting test results and in preparing test items of various types. Prerequisite: Psy 310 or consent of instructor.

Psv 422 (S)

3 hrs. cr.

Theories of Personality Survey of major contemporary theories of personality, issues of personality assessment and current research. Prerequisite: Psy 100 and junior standing.

Psy 432 (S)

3 hrs. cr.

Abnormal Psychology

Recognition and classification of the systems of mental disorders, specifying causes and possible therapeutic techniques. Extensive use of the American Psychiatric Association's Diagnostic and Statistical Manual of Mental Disorders. Prerequisite: 7 hours of psychology or permission of instructor.

Psy 435 (F)

3 hrs. cr.

Clinical Psychology

Survey of history, current methods, guild issues and future developments. Seminar format with considerable student participation. Prerequisites: Junior standing and 15 hours of psychology.

Physiological Psychology

Structure and function of the nervous system from the individual neuron to the behavior of the organism. The biological basis of movement, sleep, homeostasis, sexual behavior, emotion, learning, language and abnormal behavior will be examined from an ontogenetic and phylogenetic perspective. Prerequisite: Psy 100.

Psy 450 (S)

3 hrs. cr.

Psychology of Human Resources

An interdisciplinary approach to traditional areas of human resource management/organizational psychology, including group interaction, communication, interviewing, compensation and benefits and legal environment. Experimental and theoretical methods will be used. Prerequisite: Psy 100 or MM 350 or permission of instructor.

Psy 451 (S)

3 hrs. cr.

Learning, Memory and Cognition

Survey of the major principles and current research on such topics as classical conditioning, operant conditioning, memory systems, attentional processes, artificial intelligence and psychologylaw. Prerequisite: Psy 330.

330 or consent of instructor.

3 hrs. cr.

History and Systems of Psychology Historical antecedents and their effects on contemporary scientific psychology. Prerequisite: Psy

Psv 460 (Demand)

3 hrs. cr.

Advanced Research Projects

Advances the research skills in psychology beyond what is learned in Psy 330. Students will conceive, design, gather and analyze the data and write up a naturalistic observation, a survey or an experiement of their own choosing. Students will function as the sole investigator or as a member of a team. The final research project can serve as a pilot study for the students' senior thesis as well as provide a project they can present at a professional research conference. Prerequisite: Psy 330 or permission of the in-

Psy 471 (F)

3 hrs. cr.

Individual Testing

Practice in the administration and interpretation of individually administered intelligence tests, including the Stanford Binet and the three Wechsler tests. Prerequisite: Psy 320 or Psy 412. Offered only by request. Contact the department head.

Psy 474 (S)

3 hrs. cr.

Educational-Psychological Testing

Psycho-educational assessment techniques, including educational, intellectual and psychomotor. Emphasis on translating assessment data to remedial programs.

Psy 480 (F)

2 hrs. cr.

Senior Seminar

For senior psychology majors. Information and experiences helpful in making decisions about and preparing for careers, emphasizing preparation for either graduate school or baccalaureate level employment are presented. Students become familiar with the professional interests and activities of the psychology department faculty in preparation for selecting senior thesis topics.

Psy 481 (S)

Senior Thesis

2 hrs. cr.

With a faculty supervisor the student designs and conducts a research project resulting in a written thesis and an oral presentation. Prerequisite: Psy

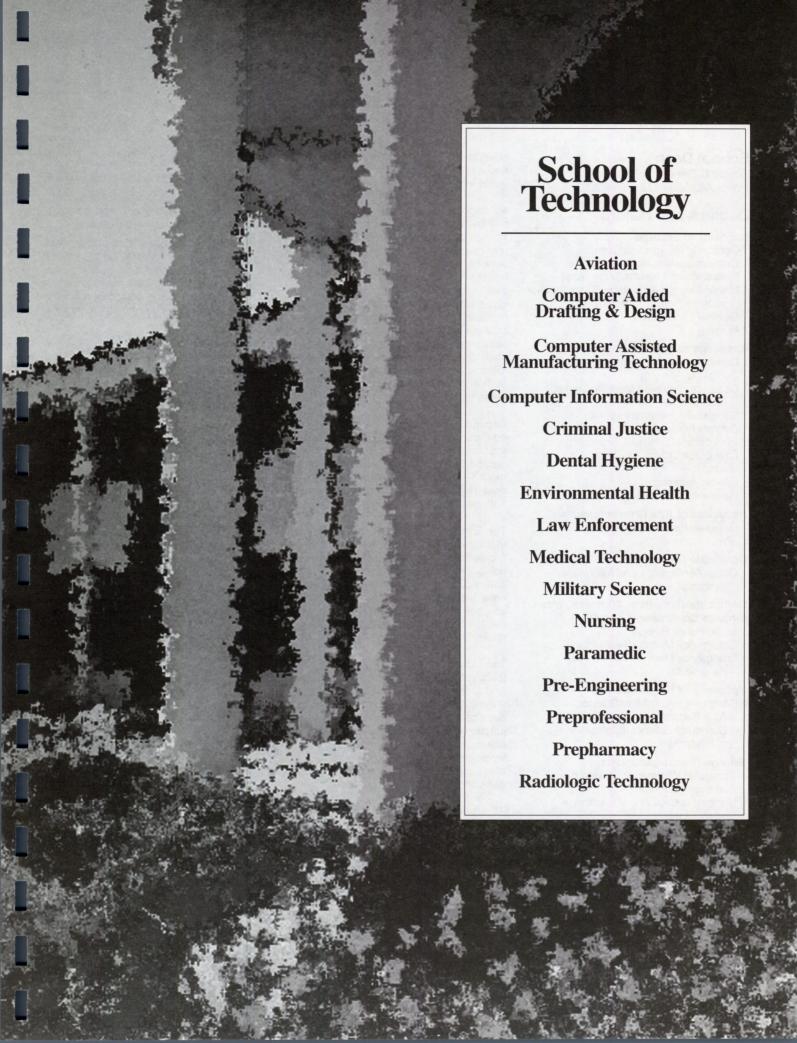
Psy 498 (Demand) Seminar in Psychology 1-3 hrs. cr.

Specialized knowledge and/or current research

in psychology. Topics vary by interest and demand. Number of weekly meetings equal to credit hours granted. Prerequisite: Junior-senior standing and consent of instructor. Some seminars are marked (H) in the class schedule and are intended for honors students. Other students may enroll in honors seminars with consent of instruc-

Psy 499 (Demand) Independent Study 1-3 hrs. cr.

Course structured by adviser with approval of department head. Prerequisite: Advanced standing in major field. Registration must be approved by adviser and department head.



School of Technology

School Dean

Donald L. Seneker Police Academy 113, 625-9328

Degrees and Majors

Bachelor of Science

Computer Information Science
Criminal Justice Administration
Environmental Health Technology
Management Technology (in conjunction
with the School of Business)
Medical Technology
Nursing

Associate of Science

Computer Aided Drafting and Design
Computer Analysis
Computer Assisted Manufacturing
Technology
Computer Programming
Dental Hygiene
Environmental Health Technology
Law Enforcement
Nursing
Pre-engineering
Radiologic Technology

Associate of Arts (Preprofessional)

General (Paramedic) Prepharmacy

Certificate (one year)

Computer Science and Information Systems

Certificate (less than 30 hours, offered through Continuing Education)

Basic Police Recruit
Emergency Medical Technician
Emergency Medical TechnicianParamedic

Options and Emphases:

Computer Information Science
As a Second Teaching Field
Computer Science Information
Systems

Minors: (See departments)

Computer Information Systems Computer Science Criminal Justice Administration Military Science

Role

The School of Technology is one of the four major instructional entities of Missouri Southern. As such, it offers quality instruction by and under, the leadership of professional educators who also have the advantage of a background of actual work experience in business, industry, health care and government. This instruction is further enhanced by

utilizing qualified individuals from business and the professions in the community as guest lecturers and part-time instructors.

Although the courses offered by the departments of the School of Technology in the various curricula are usually specifically career oriented toward a specialized field, the staff of these departments recognize the necessity of providing an understanding of the relationships between careers and society; therefore, courses from the fine arts, humanities and natural sciences, as well as courses to refine a student's ability to read, write, speak and think, are a required part of each curriculum. As a result, the students majoring in the various curricula in the School of Technology are an integral part of the entire student body.

All courses offered in the School of Technology are designed to provide students with the background or some portion of the background, to enable them to enter the employment field and to meet requirements imposed by any certifying and licensing examinations that may be required in the field.

The School of Technology also recognizes that in many respects the community is also a classroom. Therefore, a number of curricula include courses that are offered by other educational agencies. In some courses, area facilities are used as laboratory resources with students utilizing them under the direct supervision of regular college instructional personnel.

The School of Technology offers curricula leading to the B.S., A.S. and A.A. degrees and to one-year certificates. Programs of shorter duration required for licensure or certification also are offered, often in conjunction with the Division of Continuing Education. In addition, numerous courses and workshops are offered to meet specific and often rapidly emerging demands of business, industry and public service.

All departments work closely with advisory committees made up of persons from business, industry, government and the professions. Input from the advisory committees aids the faculty of the various departments in maintaining relevancy of course and curriculum content and identifying special needs that can be addressed through continuing education programs.

Goals

The goals of the School of Technology are:

- to provide opportunities for students to prepare for a broad range of established and emerging careers;
- to maintain and develop curricula which provide the opportunity for students to obtain the background in liberal arts and sciences so they may appreciate their heritage and contemporary society and become a contributing member of their society;
- to provide programs in the most cost effective method possible, that are cognizant of contemporary requirements of career fields and which provide best available preparation for emerging requirements;
- to provide opportunities and encouragement for faculty and staff to remain current and conduct research in their respective disciplines;
- to provide instructional facilities and equipment essential to the maintenance of academically excellent instruction;
- to provide a variety of supportive functions that serve a variety of area needs;
- to offer quality programs and in areas where required, maintain program content necessary for special accreditation:
- to offer a variety of continuing education programs to meet special needs and demands;
- to encourage faculty to provide consultation services and otherwise serve as resources for the area;
- to advise people, including students and potential students, regarding knowledge, skills and abilities required to enter and succeed in various career fields;
- to assist faculty to meet and maintain eligibility for special certification required in numerous programs.

Aviation, Drafting and Design / 141

Aviation

Police Academy 113, 9328

The Aviation Program is offered in affiliation with the Mizzou Aviation Company of Joplin, Missouri.

For additional information contact: Mr. Donald L. Seneker Office: Police Academy 113

Phone: 625-9328

Computer Aided Drafting and Design (CADD)

Ummel Technology Building 112, 625-9567

Faculty Bartholet, Karimi

The computer aided drafting and design curriculum leads to an associate of science degree in CADD. The curriculum prepares individuals to enter employment as manual drafters and CAD technicians in the fields of manufacturing, civil, architecture or construction.

The requirements for the associate of science degree in drafting and design provide a broad base of technical and Core Curriculum courses. Computer aided drafting and design hardware and software are used to supplement traditional manual instruction in all courses. Built into the curriculum is an emphasis on both low-end and high-end P.C. based CAD software. As the students study the various fields within drafting, they are given opportunities to apply theory through the various CAD software packages available within the department.

The department also functions as an internationally recognized authorized training center for AUTODESK software. This allows each student to be exposed to the latest CAD technology and the application of international standard systems such as A.N.S.I. and I.S.O.

Student internships and independent studies allow the student to join the real world while in school and provide invaluable references for job placement later. Professional faculty maintain close ties with area industries to assure that high quality and currently used technology is taught.

Students who complete the A.S. degree in CADD may continue their education by pursuing a baccalaureate degree in management technology with an emphasis in business or computer integrated manufacturing (CIM), which opens the door into the ground floor of an exciting new field. CIM applications are now unfolding throughout both American and International industry.

Associate of Science Degree in Computer Aided Drafting and Design

		Semester H	ours
Core Re	qui	rements (p. 36)	26
		irements	42
		Introductory Drafting	3
CADD 11		Intro to Computer Aided	-
040040		Drafting	3
CADD 12		Descriptive Geometry*	3
CADD 13		Machine Drafting*	3
CADD 20 OR)2	Tool Design	
CADD 20	14 1	Mech Design*	3
CADD 21		Technical Illustration*	3
CADD 22		Architectural Drafting	
OR		Residence of the State of the S	
CADD 33	30 (Computerized Machine	
		Design *	3
CADD 23	30 5	Survey and Mapping	
OR			
CADD 31		Computer Automated	
		Process Planning *	3
CADD 26		Computer Aided Drafting*	3
CAMT 10		ntro to Machine Tool	•
OANAT 45		Processes	3
CAMT 15		Modern Manufacturing	2
Electives		Processes (at least 9 hours)	3
Electives CAMT 16		nspection and Gaging*	2
CAMT 20		Computer Manufacturing	_
OAWII 20		Processes*	3
CAMT 21		Computer Animation in	
		ndustry*	3
CAMT 22		Fundamentals of	
		Robotics*	3
CAMT 24	101	ndustrial Materials	3
CAMT 25	50 (Computer Assisted	
		Manufacturing*	3
CAMT 33		Quality Control and	
		Reliability	3
CADD 29		Special Topics in Drafting	•
0400 40		and Design* 1-	3
CADD 49		nternship in Drafting	0
CADD 49		and Design* 1-	8
CADD 49		Seminar in Drafting and Design* 1-	2
CADD 49		ndependent Study* 1-	
Comp 10		ntro to Micro Use	3
Comp 11		Computing I	3
Comp 12		Computing II	3

Comp 200	Advanced Personal	
	Computing w/graphics	3
CIS 360	Interactive Computer	
	Graphics	3
		68

*See course description for prerequisites.

Suggested Order of Study

Associate of Science Degree
Major Code 5303
Computer Aided Drafting
and Design Major

Freshman Y	ear	
1st Semeste	r	
Course		Hours
CADD 110	Intro to Drafting	3
CADD 115	Intro to Comp Aided Draft	3
Math 112	Trigonometry	3
CAMT 100	Intro Mach Tool Proc	3
CORE	[Humanities or Fine Arts]	3
CORE	[Psy 120 College Orient]	1
		16
2nd Semeste	er	
CADD 120	Descriptive Geometry	3
CADD 130	Machine Drafting	3
CAMT 150	Modern Manufac Processe	es 3
CORE	[Eng 101 Comp I]	3
Comm 101	Oral Comm	3
CORE	[HPER 101 Physical Activi	
CORE	[HPER 103 Lifetm Wellnes	
		18
. Tell of the		
Sophomore	Year	

Sophomore Year			
1st Semeste	r		
CADD 202 o	or 204 Tool Des or Mech Des	3	
CADD 230	Survey and Mapping		
OR	· · · · · · · · · · · · · · · · · · ·		
CADD 310	Comp AutoProcess Plan	3	
CORE	[Phys 100 Fund of Phys Sci]	5	
Technical El		6	
		7	
2nd Semeste	er		
CADD 210	Technical Illustration	3	
CADD 260	Computer Aided Drafting	3	
CADD 220	Architectural Drafting		
OR			
CADD 330	Comp Machine Design	3	
CORE	[Psy 100 or Soc 110]	3	
CORE	[Hist 110 or 120 or PSc 120]	3	
Technical Ele		3	
. oo noar En		-	

[Department Recommendation] (Prerequisites)

For additional information contact:
Mr. Francis Bartholet
Office: Ummel Technology Building 112

Phone: 625-9567

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Computer Assisted Manufacturing Technology (CAMT)

Ummel Technology Building 115, 625-9327

Faculty Carlson, Karimi

The department offers an associate of science degree. The requirements of this degree will provide a progressive and flexible technical education which will assist in securing employment in rapidly changing technological fields. Students who complete this degree have the option to pursue a baccalaureate degree in management technology, with an emphasis in computer integrated manufacturing (CIM).

A variety of courses in this program emphasize the utilization of computers and various software which enrich the skills acquired by the students to compete in this ever-changing age of modern technology. These include: Computer Numerical Control, Introduction to CADD, Fundamentals of Robotics, Computer Animation in Industry, Computer Assisted Manufacturing and Computerized Production Planning and Control Systems. General education course work in mathematics, physical science, English, history and communications will give the student a total education.

The courses in the computer assisted manufacturing technology curriculum are designed to provide the students with applications-oriented training in both basic and advanced aspects of technology. The course work is a combination of lecture and labs. This allows for instruction in equipment such as a computer numerical control machining center and an industrial robot. The lab session enables the student to apply information learned in lecture and also allows for individual innovation. Students have received recognition in world-class competition for innovative developments in robotics.

Professional faculty interact with local industry to insure that instruction is current with the latest technological developments. This interaction of faculty and involvement of an individual in Society of Manufacturing Engineers Student Chapter provides students with excellent contacts for internships and employment.

Associate of Science in Computer Assisted Manufacturing Technology

Semester Hours

	OCITICSICI II	oui
Core Requ	irements (See p. 36)	2
Computer	Assisted Manufacturing	
Technolog	y Requirements	3
	Intro to Machine Tool	
07 1111 100	Processes	3
CAMT 150	Modern Manufacturing	
O/ ((V) 1 100	Processes	3
CAMT 200	Computer Numerical	0
CAIVIT 200	Processes*	3
CANAT OOO	Fundamentals of Robotic	_
CAMT 220	Fundamentals of Robotics	S
OR	0	
CAMT 210	Computer Animation in	_
	Industry*	3
CAMT 240	Industrial Materials*	3
CAMT 250	Computer Assisted	
	Manufacturing*	3
CADD 110	Introductory Drafting	3
CADD 115	Introduction to CADD	3
CADD 310	Computerized Prod Plan	
	and Control Systems*	3
Math 112	Trigonometry	3
	ing Technology Electives	TA
Mariaraotar	(at least 6 hours)	
CADD 204	Mechanical Design*	3
CADD 330	Computer Machine	0
CADD 330	Design*	3
CAMT 499	Independent Study in	0
CAMIT 499		-3
CANT 400		
CAMT 498	Seminar in Manufacturing	
O		-3
CAMT 490	Internship in Manufacturi	
		-8
CAMT 298		
		-8
CAMT 160	Inspection and Gaging*	2
CAMT 330	Quality Control and	
	Reliability*	3
CADD 202	Tool Design*	3
CADD 260	Computer Aided Drafting*	
Any other (CAMT or CADD courses	
,		

*See course descriptions for prerequisites.

Suggested Order of Study

Associate of Science Degree
Major Code 5399
Computer Assisted Manufacturing
Technology Major

Freshman \ 1st Semeste Course		Hour
CAMT 100	Intro Mach Tool Proc	3
CAMT 150	Modern Manu Processes	3
CADD 110	Intro Drafting	3
Math 130 OR	College Algebra	
Math 030	Intermediate Algebra	3
CORE	[Humanities & Fine Arts]	3
CORE	[Psy 120 College Orient]	1
		16
2nd Semest		
CAMT 200	Comp Numerical Control	3
CADD 115	Intro to CADD	3
Math 112	Trigonometry	3
CORE	[Eng 101 Comp I]	3
CORE	[Comm 100 Oral Comm]	3

Sophomore Yea	ır
1st Semester	
CAMT 220 Fun	d of Robotics
OR	
CAMT 210 Con	np Anim in Industry 3
CAMT 240 Indu	ustrial Materials 3
CORE (His	t 110/Hist 120/PSc 120) 3
CORE (Phy	ys 100 Fund of Phys Sci) 5
Technical Electiv	es 3
	17
2nd Semester	

[HPER 101 Physical Activity]

[HPER 103 Lifetm Wellness] 2

2nd Semest	er	
CAMT 250	Comp Assisted Manu	3
CADD 310	Comp Prod Plan & Con Sys	3
CORE	[Psy 100 or Soc 110]	3
Technical Electives or Internship		
		12

For additional information contact: Mrs. Sheryl Carlson or Mr. Mushabbar Karimi

Office: Ummel Technology Building 115

Phone: 625-9327

CORE

CORE

Computer Information Science

Matthews Hall 223, 625-9383

Faculty Oakes - Head, Earney, Herr, Kelley, Kemm, Mays, Tunnell

The computer information science (CIS) department provides opportunities for a broad education in the many aspects of computer hardware and software. The

Computer Science / 143

faculty's main objective is to offer courses of instruction which develop a thorough understanding of methods for using computer technology in the design and implementation of solutions to complex management, scientific, and engineering problems. Within this context, the department offers the following curricula options:

- Bachelor of Science in CIS -Information Systems
- Bachelor of Science in CIS -Computer Science
- Minor in CIS Information Systems
- Minor in CIS Computer Science
- Associate of Science in CIS -Information Systems
- Associate of Science in CIS -Computer Science
- · One Year Certificate of Achievement.

The bachelor of science alternatives prepare the student for graduate school or entry level jobs such as system programmer, system analyst, application programmer, or network administrator. A minor or associate of science provides the student pursuing some other major with a credential and expertise in computing, an enhancement which is becoming increasingly important in almost every area of science, education, business and the arts.

The information systems option is distinquished by selected CIS and business classes which develop the student's understanding of an organization's information requirements and procedures for designing an information system which will facilitate the management of the organization. The computer science option, in contrast, requires that the student take CIS and mathematics classes which develop an expertise in applied mathematics and the theoretical foundations of computer science. Such knowledge is required to design and implement computer solutions for a wide range of problems encountered in science and engineering.

The nature of computer information science is such that a student selecting this major should enjoy and have a talent for solving problems.

The effectiveness of the CIS curricula is measured by the success of our graduates. Their average starting salaries are among the highest when compared to other majors, and placement records indicate that they have enjoyed an excellent placement rate. Many hold positions as middle and upper-level managers for a wide range of organizations, and several have earned graduate degrees.

Bachelo	r of Science in CIS		
	tion Systems Major		
	irements (p.35) (51*)		45
CIS Core			43
Comp 110	Programming I	3	
Comp 210	Programming II	3	
Comp 230	Report Program Gen-		
	eration (RPG)	3	
Comp 234	Business Data Processing		
Techniques		3	
Comp 302	Concepts of Infor System		
	and Data Comm (WI)	3	
CIS 305	Microcomputer		
	Applications	3	
CIS 321	Interactive RPG/400	3	
CIS 334	Advanced Structured		
	COBOL	3	
CIS 335	Programming in C	3	
CIS 345	Computer Networks	3	
CIS 350	Data Structures	3	
CIS 400	Computer Colloquium	1	
CIS 410	Systems Analysis		
	and Design	3	
CIS 425	Database Management		
	Systems (WI)	3	
CIS 450	Operating Systems (WI)	3	
Business C	ore (qualifies for a minor		
	in business)		24
Acct 201	Principles of Accounting I		
Acct 202	Principles of Accounting II	3	
Econ 201	Principles of Economics		
	(Macro)	3	
Econ 202	Principles of Economics		
	(Micro)	3	
Econ 350	Financial Management I	3	
GB 321	Business Statistics I	3	
MM 300	Principles of Marketing	3	
MM 350	Principles of Management		
Math Core		3	
Math 130 or		3	
Profession	al Electives		6
	(as approved by adviser)	
General Ele	ectives		7
Total		12	28

*Business and math courses in major requirements satisfy 6 hours of the Core Curriculum.

Bachelor of Science in CIS Computer Science Major (Option 1)

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3

	CIS 350	Data Structures	3	
	CIS 360	Computer Graphics	3	
	CIS 400	Computer Colloquium	1	
	CIS 425	Database Management		
	010 420	Systems (WI)	3	
	CIS 430	Introduction to Artificial	3	
	013 430		3	
	CIC 450	Intelligence	_	
	CIS 450	Operating Systems (WI)	3	
	Math Core	/		
		in math)	21	
	Math 150	Calculus I	5	
	Math 250	Calculus II	5	
	Math 260	Calculus III	5	
	Math 300	Fund of Math Thought	3	
	Math 371	Introduction to Operations	S	
		Research (WI)	3	
	Physics Co	ore	5	
	Phys 151	Elem College Physics	5	
		al Electives	9	
		(as approved by advise	r)	
General Electives 10				
	Total		128	
	· Jul			

* Math and physics courses in major requirements satisfy 8 hours of the Core Curriculum.

Bachelor of Science in CIS Computer Science Major (Option 2)*

(Option 2)				
Core Requ	irements (p. 35) (51**)	43		
CIS Core		33		
Comp 110	Programming I	3		
Comp 210	Programming II	3		
Comp 234	Business Data Processing	g		
	Techniques (COBOL)	3		
CIS 335	Programming in C	3		
CIS 345	Computer Networks	3		
CIS 350	Data Structures	3		
CIS 360	Computer Graphics	3		
CIS 425	Database Management			
	Systems (WI)	3		
CIS 430	Introduction to Artificial			
	Intelligence	3		
CIS 450	Operating Systems (WI)3			
CIS Electiv	res Numbered 305			
	and above	3		
Math Core		33		
Math 150	Calculus I	5		
Math 250	Calculus II	5		
Math 260	Calculus III	5		
Math 300	Fund of Math Thought	3		
Math 350	Intro to Numerical Analysi	S		
OR				
Math 431	Numerical Analysis	3		
Math 351	Linear Algebra	3		
Math 371	Intro to Operations			
	Research (WI)	3		
Math Electiv	ves - 320 and above	6		
Supporting	Requirements	13		
Phys and Chem Electives ***				
General Ele		6		

Total

128

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CIS 321 CIS 334

Math Core

Math 130 or above

COBOL

Advanced Structured

3

	n also qualifies for a back mathematics. It is listed		Business Acct 201	Core Principles of Acct I	3	Sugges	ted Order of Study	
computation	nal mathematics alterna	ative in	Acct 202	Principles of Acct II	3	Bachelor	of Science in CIS	
	natics section of the cata emistry, and physics cou		Econ 202	Principles of Economics (Micro)	3		on Systems Major	
naior requi	irements satisfy 8 hours	of the	General E	,	8-9	Freshman \		
ore Curric			Total		64	1st Semeste		
	clude one from each (ex					Course		dour 3
	Phys 100, Phys 120, Ph Phys 300).	ys 140,		and math courses in m s satisfy 6 hours of the Co		Comp 110 Math 131 Psy 120 CORE	Programming I Finite Math College Orientation [Eng 101 Comp I (WI)]	3 1 3
nformat	tion Systems Min			-t- of Colombo in C	NC	CORE	[Psy 100 Gen Psychology] [HPER 101 Physical Activity	-
IS Core		15		ate of Science in C	12	CORE	[HPER 103 Lifetm Wellness] 2 16
	Programming I Report Program	3	Compu	ter Science Major				10
0111p 230	Generation (RPG)			uirements (p. 36) (26*)	18	2nd Semest		•
ND			Computer		15	Comp 210 Econ 201	Programming II Prin of Economics (Macro)	3
IS 321	Interactive RPG/400			Programming I Programming II	3	CIS 305	Microcomputer Applications	
R	Dusiness Data Drasses	ina	CIS 305	Microcomputer		CORE	[Eng 102 Comp II (WI)]	3
omp 234	Business Data Process Techniques (COBOL)	sing		Applications	3	CORE	[Bio 101 General Biology]	4
ND	recrimques (OODOL)		CIS 335	Programming in C	3			
IS 334	Advanced Structured		CIS 350	Data Structures	3	Sophomore		
	COBOL	6	Math Core Math 150	Calculus I	10 5	1st Semeste CIS 335	Programming in C	3
IS 302	Concepts of Info System	_	Math 250	Calculus II	5	Acct 201	Prin of Accounting I	3
IS 410	& Data Comm (WI) Systems Analysis	3	Physics (5	Econ 202	Prin of Economics (Micro)	3
10 410	and Design	3		Elementary Physics	5	CORE	[Comm 100 Oral Comm] [Phys 100 Fund of Phys Sci	3
rofession	nal Electives	6		nal Electives	9	CONL	[Fillys 100 Fulld of Fillys och	17
	ed by minor adviser)		(as approv	ved by adviser)	7			
otal		21	Total	lectives	64	2nd Semest CIS 345	ter Computer Networks	3
			Total			CIS 345	Data Structures	3
'omput	er Science Minor			physics courses in major		Acct 202	Prin of Accounting II	3
IS Core	er ociciice iviiiioi	12		isfy 8 hours of the Core	Curricu-	GB 321	Business Statistics	3
comp 110	Programming I	3	lum.			General Ele	ective	15
	Programming II	3						
IS 350	Data Structures	3	One Ye	ar Certificate of		Junior Yea		
IS 335	Programming in C	3 9	Achiev			1st Semeste Comp 234	Bus DP Tech (COBOL)	3
	ed by minor adviser	9				Econ 350	Financial Management I	3
otal	ed by minor advisor	21	Eng 101 Math 130	Comp I	3	MM 300	Prin of Marketing	3
				5 Intro to Micro Use	3	CORE	[Area 2 C.] [Hist 110 U.S. History]	3
ssocia	te of Science in C	CIS	OR			Professiona		3
nforma	tion Systems Maj	or	CIS 305	Micro Applications	3			18
ore Requ	uirements (p. 36)			Programming I	3	2nd Semes	ter	
25-26*)		19-20	Comp 210	0	3	Comp 230	Rpt Prog Gen (RPG)	3
omputer		24	Comp 230	Report Program Generation (RPG)		Comp 302	Info Sys/Data Comm (WI)	3
	Programming I Programming II	3	OR	denotation (in d)		CIS 334 MM 350	Adv Structured COBOL Prin of Management	3
	Report Program		Comp 234		sing	CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
	Generation (RPG)	3	0000	Techniques (COBOL)	3	Contac Va-		15
omp 234	Business Data Process	-	CORE	Electives	6	Senior Yea 1st Semest		
20mm 200	Techniques (COBOL)	3	General E Total	Liectives	6 30	CIS 321	Interactive RPG/400	3
omp 302	Concepts of Info Syste and Data Comm (WI)	ems 3	IJIAI		30	CIS 410	Systems Analysis & Design	
IS 305	Microcomputer	9				CIS 450 CORE	Operating Systems (WI) [Hist 120 U.S. History]	3
300	Applications	3				General Ele		3
CIS 321	Interactive RPG/400	3						15
115 331	Advanced Structured							

Computer Science / 145

2nd Semest	tor	2nd	Semeste	or		2nd Semes	tor	
CIS 400	Computer Colloquium	1 CIS		Assembly Language	3	CIS 360	Computer Graphics	3
CIS 425	Database Mgmt Sys (WI)	3 CIS		Computer Graphics	3	CORE	[Area 2 B. Literature]	3
CORE		3 CIS		Computer Colloquium	1	CIS	Elective	3
	[Area 5 A.]							
CORE	[Area 2 A.]	3 COP		[Area 2 B. Literature]	3	Math	Elective	3
CORE	[Area 2 B. Literature]			Elective	3	General Ele	ective	3
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						Freshman	Vear	
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Course		ours Cour			Hours	Math 131	Finite Math	3
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sy 120	College Orientation	1 Cher	m 101	General Chemistry I	5	CORE	[Area 2 A.]	3
ORE	[Eng 101 Comp I (WI)]	3 Psy	120	College Orientation	1	CORE	[Area 4 A.]	3
ORE	[Psy 100 Gen Psychology]	3 COR		[Eng 101 Comp I (WI)]	3			16
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/lath 250	Calculus II	5 Phys	250	General Physics I	5	CORE	[HPER 103 Lifetm Wellne	ess] 2
CORE	[Eng 102 Comp II (WI)]	3 COR	E	[Eng 102 Comp II (WI)]	3	CORE	[Phys 100 or Bio 101]	4-5
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Sophomore			Semeste			Comp 234	Bus DP Tech (COBOL)	3
st Semeste			p 234	Bus DP Tech (COBOL)	3	CIS 321	Interactive RPG/400	3
CIS 335	Programming in C	3 CIS		Programming in C	3	Acct 202	Prin of Accounting II	3
CIS 305	Microcomputer Applications	3 Math	1 260	Calculus III	5	Econ 202	Prin of Economics (Micro	
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CIS 345	Computer Networks	3 CIS		Computer Networks	3	CIS 305	Micro Applications	3
		3 CIS		Data Structures	3	CIS 334	Adv Structured COBOL	3
CIS 350	Data Structures				3	General Ele		7-8
/lath 300	Fund of Math Thought		300	Fund of Math Thought		General Ele		
CORE	[Area 2 A.]	3 COR		[Psy 100 Gen Psychology				16-17
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Junior Year							er Science Major	
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Comp 234	Bus DP Tech (COBOL)		Semeste			Freshman	Year	
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Math 371 Phys 151	Elem Coll Physics I			[Hist 120 U.S. History]	3	Math 150	Calculus I	
Math 371 Phys 151	[Hist 120 U.S. History]	3 COR		[Area 2 C.]	3	Psy 120	College Orientation	1 3
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Math 371 Phys 151	[Hist 120 U.S. History]	7 COR		HERENE EN PER LIKE BY	16	CORE	[Eng 101 Comp I (WI)]	
Math 371 Phys 151 CORE	[Hist 120 U.S. History]	7 COR	semeste	HERENE EN PER LIKE BY	16	CORE	[Econ 180 Amer Econ Sy	s] 3
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[Department Recommendation]

For additional information contact: Dr. Jack L. Oakes

Office: Matthews Hall 223 Phone: 625-9683

Criminal Justice Administration

Police Academy 102, 625-9302

Faculty Spurlin-Director, Mosher, Richards, Seneker, Terry, Whittle, Williams, Wolf

The department offers two degrees, the bachelor of science in criminal justice administration and the associate of science in law enforcement. Since many of the jobs in these fields have special background and physical requirements, students considering one of these majors are required to schedule an interview with the director of the programs before enrolling.

The criminal justice activities of the College are a vital and working part of the law enforcement effort in Southwest Missouri and adjacent states. The Regional Criminalistics Laboratory is housed in the Police Academy building and actual evidence is evaluated by the criminalists there who testify in court as expert witnesses as needed. Also housed in the academy is a complete photographic laboratory, with both automated and color equipment.

Missouri law requires new officers to obtain "basic training" in a certified "Regional Police Academy." Missouri Southern operates the regional academy for this portion of Missouri and many students choose to take their "Police Basic Training" at the Academy while attending college, to make them even more employable upon graduation.

Visitors to the modern Mills Anderson Police Academy building are usually impressed by the constant and varied activities going on there. College students mingle in classes and on breaks with working law enforcement officers from the community, paramedics, emergency medical technicians, firefighters and others taking training in the building.

Another unusual feature of the building is the modern indoor firearms range in the basement, where police officers, students and others are introduced to weapons skills under the guidance of gualified range masters. And, while there are other criminal justice programs in the nation, this one is perhaps unique in the combination of the many "real world" activities going on with which the College serves the community in a practical sense. This works to the advantage of the pre-service college student who is able to take advantage of the facilities and expertise of the faculty and staff working at these important jobs. Missouri Southern's graduates generally return for special seminars and training to keep them updated on recent changes in technology and legal subjects. The Academy is a busy place with interested and challenged students working with experienced and dedicated staff.

A bachelor's degree in criminal justice administration prepares the student for many different graduate programs such as law school. It also prepares the student for careers in law enforcement, juvenile justice, corrections, probation and parole, private or industrial security, federal investigative agencies and related positions. Many of these positions have requirements relating to physical condition and integrity of personal background with which the student should become familiar.

The College also offers the associate of science in law enforcement page 150.

Bachelor of Science in Criminal Justice Administration

Semester Hours Core Requirements (p. 35) 51 **Criminal Justice Requirements** 26 Introduction to Law LE 100 Enforcement 3 LE 110 Police Organization and Administration 2 Interview and Report LE 150 Writing 3 Criminal Procedures LE 210 3 LE 250 3 Criminal Law LE 290 Police Supervision and Management

Select one from the following: CJAd 230 Introduction to Security CJAd 325 Physical Security CJAd 330 Loss Prevention Techniques	3 3 3	3
Select one from the following: CJAd 320 Probation and Parole CJAd 412 Correctional Practices	3 3	**
Select one from the following: CJAd 410 Juvenile Procedures CJAd 411 Juvenile Corrections	3 3	

The student must also select a minimum of 21 credit hours from the following list of major course electives:(Students may not count classes that were selected in the above area.)

LE 180	Basic Police Academy* 6	
LE 200	Criminal Investigation I 3	
LE 225	Patrol Procedures 3	
LE 245	Law Enforcement	
	Photography 3	
LE 298	Special Topics* 1-8	
CJAd 230	Introduction to Security 3	
CJAd 210	Basic Photography 3	
CJAd 325	Physical Security* 3	
CJAd 260	Legal & Technical Aspects	
	of Firearms 3	
CJAd 300	Criminal Investigation II 3	
CJAd 301	International Justice	
	Systems 3	
CJAd 310	Traffic Accident Invest and	
	Control 3	
CJAd 320	Probation and Parole* 3	
CJAd 330	Loss Prevention	
	Techniques* 3	
CJAd 431	Administration of Security	
	Systems* 3	
CJAd 340	Basic Color Photography*3	
CJAd 350	Fish and Game	
	Enforcement 3	
CJAd 400	Homicide Investigation* 3	
CJAd 410	Juvenile Procedures* 3	
CJAd 411	Juvenile Corrections* 3	
CJAd 412	Correctional Practices 3	
CJAd 450	Criminal Evidence* 3	
CJAd 490	Internship in Criminal	
C 144 400	Justice Administration* 4-8	
CJAd 498	Seminar in Criminal	
C 14 d 400	Justice Administration* 1-3	
CJAd 499	Independent Study* 1-3	,
		d

*See course descriptions for prerequisites.

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The major in criminal justice administration also requires the student to complete 15 hours of classwork in the supportive area:

Soc 110	Intro to Sociology	3
Psy 100	General Psychology	3
Computer	Literacy Requirement	3
Adviser Ap	proved Electives	6

General electives selected with adviser approval among which must be sufficient "upper division" courses (courses numbered at the 300 or 400 level) to complete the College's requirement for a minimum 40 upper-division hours. A minor is highly recommended.

Minor in Criminal Justice Administration

The minor consists of 21 hours of course work which includes: LE 100 Introduction to Law Enforcement, LE 210 Criminal Procedures, LE 250 Criminal Law and 12 additional hours of LE or CJAd courses, nine of which must be upper division.

Suggested Order of Study

Bachelor of Science Degree Major Code 2105

Criminal Justice
Administration Major

Freshman Year

13t Octifico	tol	
Course		Hours
LE 100	Intro to Law Enforcement	3
LE 110	Police Org & Admin	2
CORE	[Eng 101 Comp I]	3
Computer I	Literacy Requirement	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Psy 120 College Orient]	1
CORE	[HPER 101 Physical Activity	y] 1
		16

2nd	Semester
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LE 150	Interview and Report Writing	3
CORE	[Eng 102 ComplI]	3
CJAd	Required course	3
Math 110	Intro College Math or higher	3
CORE	[Bio 101 General Biology]	4
CORE	[HPER 103 Lifetime Wellness] 2
		10

Sophomore Year

1st Seme	ster	
LE 210	Criminal Procedures	3
CORE	[Hist 110 U.S. History]	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Soc 110 Intro to Sociology]	3
CJAd	Required Course	3
	The second of th	17

2nd Seme	ester			
E 250	Criminal Law			

LE 290	Police Supvsn & Management	3
Psy 100	[General Psychology]	3
CORE	[Econ 180 Amer Econ Sys]	3
Elective	[A minor is suggested]	3
CORE	[Literature]	3
	1	8

		16
Junior Yea	ır	
1st Semest	er	
CJAd	Required Course	3
CORE	Elective [International Stu]	3
Elective	[Supportive Area]	3
CORE	[PSc 120 Gov't: U.S/Sta/Loc]	3
CORE	[Elective-Fine Art]	3
		15

2nd Semester

15

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CJAd	Elective	3
CORE	[Fine Art]	3
Elective	Supportive Area	3
CORE	[Hist 120 U.S. History]	3
Elective	[A minor is suggested]	3
		15

Senior Year

1st Seme	ster	
CJAd	Elective	3
CJAd	Elective	3
CJAd	Elective	3
Elective	[A minor is suggested]	3
Elective	[A minor is suggested]	3
		15

2nd Semester

CJAd	Elective	3
CJAd	Elective	3
CJAd	Elective	3
Elective	[A minor is suggested]	3
Elective	[A minor is suggested]	3
	and the Cale of the Cale	15

[Department Recommendations]
All electives must be approved by a CJAd adviser prior to enrollment.

For additional information contact: Jack G. Spurlin

Office: Police Academy 101

Phone: 625-9651

Dental Hygiene

Ummel Technology Building 101, 625-9379

Faculty Scorse - Director, Crnic, Karst, Strait, White

The dental hygienist is a dynamic health care professional who is the only member of the dental health team, other than the dentist, licensed to provide direct care to the patient. The diverse duties of the dental hygienist are rewarding and include oral prophylaxis (cleaning); exposing, processing and mounting radiographs; collecting and evaluating medical history information;

performing head and neck screening examinations; and applying agents for the prevention of decay. Other important and challenging functions include assessing the condition of the periodontium (supporting structures of the teeth) and providing periodontal (gum) therapy including root planing and curettage, applying desensitizing and antimicrobial agents and administering local infiltration anesthesia and nitrous oxide/oxygen analgesia. The dental hygienist also acts as a dental health educator and is responsible for teaching patients to prevent dental disease and for providing nutritional counseling.

Dental hygiene employment opportunities are numerous and vary greatly. They include general practice and specialty dental offices; federal, state, county and city health clinics; public schools; hospitals; dental schools; industrial clinics; the armed services; and research institutions.

Missouri Southern offers an associate of science degree in dental hygiene. Upon satisfactory completion, graduates are eligible to take the National Board Examination and practical examinations required for licensure in Missouri and other states. This program is accredited by the American Dental Association.

Admission to Missouri Southern does not automatically grant admission to the dental hygiene program. In addition to meeting admission requirements for the College, candidates must apply for admission to the department of dental hygiene prior to April 1. Applications are reviewed by the Selection Committee for Dental Hygiene and consideration is given to demonstrated scholastic ability and test scores, references and results of a personal interview with the dental hygiene faculty. Applicants are encouraged to submit the necessary information by March 1 so that interview appointments can be scheduled for the middle of March.

Evidence of satisfactory completion of the prerequisites, which include general zoology, intermediate algebra (or higher algebra) and English composition, should be presented. Individuals may be accepted if they have not completed these prerequisites; however, admission is contingent upon the completion of these courses with a "C" or above during the summer prior to entrance into the program.

Enrollment is limited and all applicants are admitted contingent upon the completion of physical and dental examinations and the rendering of an acceptable health status. Students are admitted to the dental hygiene program only in the fall of each year.

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Interested individuals are encouraged to contact the Director of Dental Hygiene for more specific information regarding admissions criteria.

In addition to established fees for all college students, the following are minimum costs incurred by dental hygiene students: \$600 for uniforms, safety glasses, gloves, books and graduation pins; \$800 for instruments; approximately \$600 for licensure exams which will vary depending on state(s) in which license is desired; approximately \$60 for ADHA student membership dues and liability insurance; and variable expenses for transportation to off campus clinical training sites and meals.

The associate of science in dental hygiene requires a minimum of 79 credit hours in addition to prerequisite courses. All courses in the suggested order of study must be completed in the prescribed sequence. Course grades of "C" or above in dental hygiene and supporting science courses are necessary for retention in the dental hygiene program.

Associate of Science Degree in Dental Hygiene

Semester Hours Core Requirements (p. 36) (10 hours satisfied by prerequisites) **Dental Hygiene Requirements** DH 101 Fundamentals of Dental Hygiene I DH 102 Fundamentals of Dental Hygiene II* DH 140 Dental Morphology 1 DH 150 Oral Histology and Embryology 3 DH 160 **Dental Radiology** 2 DH 190 Clinical Dental Hygiene I* 3 DH 200 **Dental Health Education** 3 DH 210 Perio-Pathology DH 220 **Dental Materials** DH 290 Clinical Dental Hygiene II* 5 DH 310 Nutrition 2 DH 320 Pharmacology DH 330 **Ethics and Community** Dentistry* 3 DH 390 Clinical Dental Hygiene III* 5 Bio 231 Medical Microbiology* 5 Bio 240 Radiation Biology* 3 **Bio 306** Human Physiology and

*See course descriptions for prerequisites

Intro to Sociology

5

5

3

Anatomy'

Soc 110

Chem 100 Introductory Chemistry*

Suggested Order of Study

Associate of Science Major Code 5203 Dental Hygiene Major

Prerequisit	es	
Bio 121	General Zoology	4
CORE	[Eng 101 Comp I]	3
Math 030	Inter Algebra (or higher)	3
	To more than to have be	10

Freshman Year Fall Semester Course Hours Fund of Dental Hygiene I **DH 101** 4 **Dental Morphology** DH 140 1 DH 150 Oral Histology & Embr 3 Bio 306 Human Phys & Anatomy 5 Chem 100 5 Introductory Chemistry 18 Spring Samostar

Spring Serile	Stel	
DH 102	Fund of Dental Hygiene II	4
DH 160	Dental Radiology	2
DH 220	Dental Materials	3
DH 310	Nutrition	2
Bio 231	Medical Microbiology	5
Bio 240	Radiation Biology	3
	the entire to hood a kill of	19
Summer Ses	sion	

Summer S	ession	
DH 190	Clinical Dental Hygiene I	3
DH 210	Perio-Pathology	3
		6

Sophomore	Year	
Fall Semeste	er	
DH 200	Dental Health Education	3
DH 290	Clinical Dental Hygiene II	5
DH 320	Pharmacology	2
Psy 100	General Psychology	3
CORE	[Comm 100 Oral Comm]	3
CORE	[HPER 103 Lifetm Wellness]	2
	1	18

ester	
Ethics & Comm Dentistry	3
Clinical Dental Hygiene III	5
[Humanities or Fine Arts]	3
[Hist 110/Hist 120 /PSc 120]	3
[HPER 101 Physical Activity]	1
Intro to Sociology	3
a compared to the state of	8
	Clinical Dental Hygiene III [Humanities or Fine Arts] [Hist 110/Hist 120 /PSc 120] [HPER 101 Physical Activity] Intro to Sociology

[Department Recommendation]

For additional information contact: Sandra A. Scorse, D.D.S. Office: Technology Building 102 Phone: 625-9379 / 625-9600 / 625-9711

Environmental Health Technology

Reynolds Hall 313, 625-9731

Faculty Adams - Coordinator, Tillman

The College offers the four-year bachelor of science in environmental health with two options and a two-year associate of science degree.

Option I

This bachelor of science degree requires three academic years of study at Missouri Southern preceded or followed by successful completion of three trimesters at the Water and Wastewater Division of Crowder College, Neosho, Mo. The student holds membership in only one student body at a time. At Missouri Southern the student pays the same fees as any other student if residency requirements have been met.

Option II

This bachelor of science degree requires four complete academic years at Missouri Southern, including a semester internship. Plans for the internship should be made with the student's adviser during the spring semester of the junior year.

The associate of science degree is in affiliation with the Water and Wastewater Technical Division of Crowder College, Neosho, Mo. The combination of Missouri Southern requirements that are basic to all combined associate degrees, the specific courses required for the associate degree in environmental health technology, plus completion of a minimum of three trimesters of approved study at the Water and Wastewater Technical Division of Crowder College will qualify the student for the associate of science degree. The student may complete the requirements at either school first, but is a member of only one student body at a time.

Bachelor of Science Environmental Health Technology Major

	Semester	Hou
Core Req	uirements (p. 35) 51*	3
Biology a	nd Environmental Health	
Core		3
Bio 101	General Biology	4
Bio 112	Botanical Survey	3
Bio 122	Zoological Survey	3

Environmental Health / 149

Bio 231	General & Medical		Majors sat	isfy the writing intensive (WI) re-
	Microbiology	5	quirement	by completing ENG 101 a	nd 102
Bio 290	Research Methods			uivalent) and three WI cla	
	in Biology	2	environme	ntal health, biology or a su	upport-
306 Bio 306	Human Phys & Anatomy			See page 35 for Writing Int	ensive
R		154	requireme	nts.	
io 431	Animal Physiology	5			
HT 312	Environmental Biology	4		courses in biology, che	
HT 370	Environmental Health			cs and physics satisfy ma	
HT 372	Environmental Reg and			s and 12 hrs. of the Core C	urricu-
	Program Adm	4	lum.		
	cs and Physical Science				
equireme		30			
ath 140	College Algebra and	-	Associa	ate of Science in	
am 101	Trigonometry	5		mental Health	
em 101	General Chemistry I	5			
m 201	General Chemistry II	5	Techno	logy	
em 300	Analytical Chemistry I Introduction to Modern	3		Semester	Hours
300	Organic Chemistry	5	Core Reg	uirements (p. 36)* 21-	22
s 151	Elementary College		Biology &	Environmental Health Core	
3 101	Physics	5	Bio 101	General Biology	4
lege Co	omputer Requirement		Bio 231	General & Medical	
303	Computer Applications in			Microbiology	5
	Biology		OR	White Park to the Control of the Con	
			EHT 312	Environmental Biology	
	Computer Course 2	2-3		(if WWTS completed)	4
				cience Requirement	10
				General Chemistry I	5
tion I				General Chemistry II	5
ter and	WastewaterManagemen	t	Water and	Wastewater Technical	00
	Wastewater Technical			School	30 69-71
chool		30	* 4 hrs. co	tisfied by required biology	
pper Divis		20	4 ms. sa	ushed by required biology	
	138	5-136			
ntion II			Sugges	ted Order of Stud	,
Option II	nal and Community He	alth	Sugges	sted Order of Study	
Soloot opp	roved courses to complete	2 30			
r block fro	om the following. The block	must		e of Science Degree	
clude EH	T 450 Internship in Enviror	men-	Major Co		
I Health.		30		nental Health Major	
io 240	Radiation Biology	3		d 48 week course at Water and	Waste-
0 361	Parasitology	4	water Scho	ol-30 Hrs.	
o 402	General Ecology	4	Freshman	Year	
481	Aquatic Ecology	4	1st Semest	er	
HT 298	Selected Topics in		Course		Hours
		1-8	Chem 101	General Chemistry I	5
HT 373	Solid Waste Managemen	nt2	Bio 101	General Biology	4 5
HT 375	Vector Control	2	Math 140 CORE	Algebra & Trigonometry [Psy 120 College Orient]	1
HT 377	Community Sanitation	4	CORE	[HPER 101 Physical Activit	
HT 380	Epidemiology	2			16
HT 385	Food, Milk and				
	Consumer Protection	4	2nd Semes		ion The
HT 450	Internship in Environ-		Chem 102	General Chemistry II	5
	mental Health	1-8	EHT 312	Environmental Biology	4
HT 483	Environmental		CORE	[Eng 101 Comp I] [Literature or Fine Arts]	3
	Assessment	2	CORE	[Hist 110 or PSc 120]	3
HT 498	Seminar in Environmenta		COME	[1130 110 011 00 120]	18
		1-3			
HT 499	Problems in Environ-	la so	Summer Se		
0,105.52	mental Health	1-3	CORE	[Psy 100 or Soc 110]	3

Environmental Geology 4

Geol 300

For additional information contact:

Dr. Wayne Adams

Office: Reynolds Hall 313A

Phone: 625-9731

Mr. David Tillman

Office: Reynolds Hall 317D

Phone: 625-9698

**This work may be taken prior to entering Southern or after completing work on the Crowder College campus.

Bachelor of Science Degree Major Code 1299 **Environmental Health**

Technology Major Freshman Year 1st Semester

3

2

[HPER 103 Lifetm Wellness]

Comm 100 Oral Comm

[Department Recommendations]

CORE

135-136

13t Octiliost	.01	
Course		Hours
Bio 101	General Biology	4
CORE	[American Cultural Stu]	3
CORE	[Eng 101 Comp I]	3
CORE	[HPER 101 Physical Activit	y] 1
CORE	[Psy 120 College Orient]	1
Math 140	College Algebra & Trig	5
		17

2nd Semester

Lina Comioot	01	
Bio 112	Botanical Survey (Bio 101)	3
CORE	[Eng 102 Comp II]	3
CORE	[American Cultural Studies]	3
CORE	[Humanities and Fine Arts]	3
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[Humanities and Fine Arts]	3
		17

Summer Session

CORE	[Behavioral Science]	3
CORE	[American Cultural Stu]	3
		6

Sophomore Year

1st Semeste	er	
Bio 122	Zoological Survey (Bio 101)	
Bio 231	Gen/Med Microbio (Bio 101)	5
Chem 101	Gen Chemistry I (Math 140)	5
CORE	[Comm 100 Oral Comm]	3
		16

2nd Semester

Zila Ocilicot		
Chem 102	Gen Chem II (Chem 101)	5
Bio 303	Comp Appl in Biology (co	nsent
OR		
Approved co	omputer course	2-3
CORE	[American Cultural Stu]	3
Phy 151	Elem Col Phy (Math 140)	5
		15-16

Summer Session

CORE	International	Cultural	Stul	3
CONE	International	Cultural	Stuj	0

150 / Law Enforcement, Medical Technology

1				
Junior Year				
1st Semeste	r			
Bio 306	Hum Phys & Anat			
	(Bio 121 or consent)			
OR				
Bio 431	Animal Physiology (Bio 331)	5		
EHT 312	Environmental Biology			
	(Bio 101 & consent)	4		
Chem 201	Analytical Chemistry I			
	(Chem 102)	5		
CORE	[Humanities & Fine Arts]	3		
	AND A STATE OF THE STATE OF THE	17		
2nd Semeste	er			
Bio 290	Res Meth in Bio (Bio 112/122)	2		
Chem 300	Intro to Mod Org Chem			
	(Chem 102)	5		
EHT 372	Env Reg & Pro Adm			
	(EHT 312 & 370 or consent)	4		
EHT 370	Environmental Health			
	(Bio 231 or consent)	4		
	(=:= ==: :: :::::::::::::::::::::::::::	15		

Senior Year

Option I Water and Wastewater Management Three trimesters at the Water and Wastewater Division of Crowder College. This work may be taken prior to entering Missouri Southern.

Option II Institutional and Community Health

Select approved courses to complete a 30 hr. block from the following. The block must include EHT 450 Internship in Environmental Health.

Bio 240	Radiation Biology (Chem 10	
210 2 10	or consent)	3
Bio 361	Parasitology (Bio 122)	4
Bio 402	General Ecology (Bio 112	
	& 122 or consent)	4
Bio 481	Aquatic Ecology (Bio 122)	4
EHT 298	Sel Topics in Envir Health	
	(Bio 101, 112 & 122)	1-8
EHT 373	Solid Waste Management	
	(EHT 312 & 370 or consent)	2
EHT 375	Vector Control (EHT 312	
	& 370 or consent)	2
EHT 377	Community Sanitation	
100	(EHT 312 & 370 or consent)	4
EHT 380	Epidemiology (Bio 290,	
FUT OOF	EHT 312 & 370 or consent)	2
EHT 385	Food, Milk & Consumer	
	Protection (Bio 231,EHT	
EHT 450	312 & 370 or consent)	4
EH1 450	Internship in Environ-	10
EHT 483	mental Health (consent) Environmental Assessment	1-8
EHT 403	(EHT 312 & 370 or consent)	2
EHT 498	Seminar in Environ-	2
LIII 430	mental Health (consent)	1-3
EHT 499	Problems in Environmental	1-3
2111 400	Health (consent)	1-3
EHT 300	Environmental Geology	
	(Phys 100)	4
	, ,	35-136

[Departmental Recommendations] (Prerequisites)

Program must satisfy Writing Intensive (WI) requirements page 35.

For additional information contact:

Dr. Wavne Adams

Office: Revnolds Hall 313A

Phone: 625-9731

Mr. David Tillman

Office: Revnolds Hall 317D

Phone: 625-9698

Law Enforcement

Police Academy 102, 625-9302

Faculty Spurlin - Head, Richards, Seneker, Terry, Williams, Wolf

The associate of science degree in law enforcement helps prepare students for entrance into police work, a field which has become highly specialized and complex at the local, state and national levels. Modern law enforcement responsibilities make academic preparation beyond the high school level essential.

The College also offers the four-year bachelor of science degree in criminal justice administration. See page146.

Associate of Science in Law Enforcement

	Semester H	lours
Core Requ	irements (p. 36)	26
6 Core ho	urs are satisfied by taking	a the
ollowing re	quired courses)	
	cement Requirements	39
	Introduction to Sociology	3
Elective		3
Elective		3
Computer L	iteracy Requirement	3
E 100	Introduction to Law	
	Enforcement	3
E 110	Police Organization and	
	Administration	2
E 150	Interview and Report	
	Writing	3
	viser Approved	
E 200	Criminal Investigation	3
E 210	Criminal Procedures	3
E 290	Police Supervision and	
	Management	3
E 250	Criminal Law	3
Psy 100	General Psychology	3
PSc 120	[Gov't: U.S./Sta/Loc]	3
HPER 220	First Aid	2

Suggested Order of Study

Associate of Science Degree Major Code 5505 **Law Enforcement Major**

Freshman Year 1st Semester Course Hours CORE [Eng 101 Comp I] 3 **CORE 110** Intro to College Math 3 Comp 105 Intro to Micro Comp Use 3 LE 100 Intro to Law Enforcement 3 LE 110 Police Org & Adm 2 CORE [Psy 120 College Orient] [HPER 101 Physical Activity] 1 CORE

		16
2nd Semes	ster	
Psy 100	General Psychology	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Soc 110 Intro to Sociology]	3
LE 150	Interview & Report Writing	3
LE 210	Criminal Procedures	3
		17

	Sopnomor	e year	
1st Semester			
	CORE	[Comm 100 Oral Comm]	3
	CORE	[HPER 103 Lifetm Wellness]	2
	CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
	LE 200	Criminal Investigation	3
	Elective		3
	Elective	Fine Arts Elective	3
			17
		2nd Semester	
	Elective		3
	HPER 220	First Aid	2
	LE 250	Criminal Law	3
	LE 290	Police Supvis & Mgmt	3
	Electives	Adviser Approved	6
			47

[Department Recommendations]

For additional information contact: Jack G. Spurlin Office: Police Academy 101

Phone: 625-9651

Medical Technology

Reynolds Hall 210, 625-9376

Faculty Baiamonte, Mosher

The bachelor of science degree in medical technology is granted to students who complete the required program of study satisfactorily. These requirements include the basic requirements for all bachelor of science degree programs, required science and other supportive courses plus 32 hours of professional course credits. The completion of this degree is required before an individual is eligible to take the certifying examination.

Medical Technology / 151

Missouri Southern has affiliation agreements with the Schools of Medical Technology at St. John's Regional Medical Center, Joplin, Mo.; St. John's Regional Health Center, Springfield, Mo.; Lester E. Cox Medical Center, Springfield, Mo.; and Research Medical Center, Kansas City, Mo. If a student wishes to attend an accredited school of medical technology with which the College has no formal agreement, the Vice President for Academic Affairs can negotiate an agreement for the individual student. Students should be aware that enrollment in the professional schools is limited. Each of the professional schools has its own admission criteria and selects those students to be admitted to a class from the applicants for that class. In general, this selection is based on the academic record or demonstrated aptitude for the medical field. Students are responsible for filing their own application for admission with the professional schools. Application should be made to the professional school during the early fall of the junior year or approximately 10 months prior to the expected entrance date.

Students who are unsuccessful in gaining admission to a professional school can normally select and complete another science major with the advice of the appropriate department head.

A student may enroll in the professional courses either at the hospital-based school or through Missouri Southern, depending on the policies of the hospital-based school. Students enrolled at the hospital-based school are not considered members of the Missouri Southern student body, since the hospital-based school in such cases is considered as any other accredited institution of higher education. A student enrolling through Missouri Southern is considered a member of the College student body and is, therefore, eligible for benefits offered all students.

The weekly time requirements for the professional medical technology courses (400 level) listed are based on the minimum requirements for a course meeting for a normal academic term for a minimum of 16 weeks. Actual scheduling of classes may vary according to custom of the individual professional school to meet these minimum total hour requirements.

Bachelor of Science With a Major in Medical Technology

		Semester	Hours
Core Rec	uirements (p. 3	35) 51**	39
	equirements		26
Bio 121	General Zoolo	gy	4
Bio 231	General & Med	dical	
	Microbiology*		5

Bio 305	Genetics*	4
Bio 306	Human Physiology and	
	Anatomy*	5
Bio 456	Immunology*	4
Either		
Bio 361	Parasitology*	4
OR		
Bio 362	Virology*	4
Chemistry	Requirement	24-25
Chem 101	General Chemistry I*	5
Chem 102	General Chemistry II*	5
Chem 201	Analytical Chemistry I*	5
Chem 300	Introduction to Modern	
	Organic Chemistry*	5
Chem 351	Biochemistry*** (4)	
OR		
Chem 421	Analytical	
	Chemistry II* (5)	4-5
Other Requ		16
Phys 151		
	Physics I*	5
Phys 152	Elementary College	
	Physics II*3	
Math 140	Algebra & Trigonometry	y 5
Comp 110	Programming I (Pascal) (3)
OR	Saddles Transcon 1	
Higher leve	el computer course	3
400 Level I	Medical Technology Cou	urses
(at Hospita	1)	32
Digital States		137-138
*0	o descriptions for prore	aujoitoo.

*See course descriptions for prerequisites.

**Required biology, physics and mathematics courses simultaneously satisfy Core
Curriculum and major requirements.

***St. John's, Springfield, Mo., requires either Biochemistry or Quantitative Analysis.

Suggested Order of Study

Bachelor of Science Degree Major Code 1223 Medical Technology Major

Freshman Year 1st Semester

Course		Hours
Chem 101	Gen Chem I (Algebra & Trig)	5
Math 140	Algebra and Trig	5
CORE	[Eng 101 Comp I]	3
Comp 110	Programming I	3
CORE	[Psy 120 College Orient]	1
		17
2nd Semes	ster	
Chem 102	Gen Chem II (Chem 101)	5
Bio 121	General Zoology	4
CORE	[History 110 U.S. History]	3
CORE	[Eng 102 Comp II]	3
CORE	[Econ 180 Amer Econ Sys]	3
		18

	Sophomor 1st Semest		
	Chem 201 Bio 231 CORE CORE CORE Elective		5 5 3 3 1 1 18
25			10
	2nd Semes Chem 300 Bio 305 CORE CORE CORE	Mod Org Chem (Chem 102) Genetics [Comm 100 Oral Comm] [Humanities & Fine Arts] [Hist 120 or 320 U.S. History]	5 4 3 3 3 18
	Junior Yea		
16	1st Semest Phys 151 Bio 306 Bio 361 OR	Elem Col Phys I (Math 140) Hum Phys & Anat (Bio 121) Parasitology (Bio 121)	5 5
	Bio 362 CORE CORE	Virology (Bio 231) [HPER 103 Lifetm Wellness] [Humanities & Fine Arts]	4 2 3 19
	2nd Semes	ter	
32		Analy Chem II (Chem 201)	
38	Chem 351 Phys 152 Bio 456	Biochemistry (Chem 300) Elem Col Phys II (Phys 151) Immunology	4-5 3 4
es. at- ore	CORE CORE	[Psc 120 Gov't: U.S./Sta/Loc] [International Cultural Studies	3
oi	Canian Vac	MODELLE A SOCIETA DE EL ACTU	

Senior Year 1st Semeste

(Prerequisites)

Phone: 625-9541

1st Seme	ster	
(At an app	proved School of Medical	Technology)
MT 401	Clinical Chemistry	10
MT 403	Hematology	6
		16

2nd Seme		
(At an app	proved School of Medical Technology	nology
MT 402	Clinical Microscopy	1
MT 404	Serology	3
MT 405	Clinical Microbiology	7
MT 406	Immunohematology	3
MT 407	Special Topics in Med Tech	2
		16

[Department Recommendations]
For additional information contact: Dr. Vernon Baiamonte
Office: Revnolds Hall 213

OR
Dr. Melvyn Mosher
Office: Reynolds Hall 242 and
Police Academy 105

Phone: 625-9733 or 625-9382

152 / Military Science, Nursing

Military Science

Police Academy 109, 625-9545

Faculty Langan - Head, Rivette, Brown, Wright

Military science provides an additional dimension to a student's educational program. Students who participate in military science courses receive leadership, managerial and confidence-building training that will be of great value to them in any career they seek.

The military science program at Missouri Southern is divided into two elective programs, the Basic Course and the Advanced Course.

The Basic Course encompasses five freshman and sophomore level courses. There are no prerequisites for participating in any of the five courses offered; they may be taken in any sequence. Participants incur no military obligation by taking these courses. These courses are similar to all other college courses in that they carry academic credit. Basic Course subjects provide students with an understanding of the United States Army. Subjects taught in the Basic Course include leadership, survival, marksmanship, rappelling, land navigation, world conflicts, terrorism and history of ROTC. These courses will also qualify students for the Advanced Course in the event that they elect to continue in the military science program.

The Advanced Course includes the junior and senior courses. The primary objective is to prepare qualified students for commissioned officer service in the United States Army, the United States Army Reserve or the Army National Guard. All Advanced Course students receive \$100 per month for up to 10 months each year while enrolled in the Advanced Course. They also will attend ROTC Advanced Camp, normally during the summer between the junior and senior years. Compensation is received for travel and for time spent at camp. Advanced Course students, upon successful completion of the Advanced Course, are commissioned Second Lieutenants. They may choose to serve either three years in the Active Army or three to six months in the Active Army and fulfill the remainder of their commitment in the Army Reserve or Army National Guard.

All students enrolled in the Advanced Course, prior to being commissioned as officers in the Army, are required to take at least one course in each of the following areas: behav-

ior, written communication skills, military history, mathematical reasoning and computer literacy.* Course work in management and national security policy are recommended but not required. The military history requirement is satisfied by taking Hist 400.

Two and three year scholarships are awarded annually on a competitive basis. Any full-time college student may apply. All scholarships pay for tuition and mandatory fees. They also pay the student \$100 a month during each academic year and a book stipend of \$200 per semester.

Students with at least two academic years remaining in their course of study can complete the Basic Course requirements by participating in Basic Camp. Pay and allowances are received for Basic Camp participants. (See MS 298)

All students desiring to enroll in the Advanced Course who are not U.S. citizens must have department permission prior to enrolling.

Students with prior military service or military science training, including Junior ROTC, may be eligible for advanced placement in the military science program. A minor in military science may be obtained by completion of not less than 18 hours of MS courses to include: MS 301, 302, 411, 412, Hist 400.

Textbooks are supplied for all ROTC classes. Uniforms are not required for freshmen. Advanced Course students are furnished all required uniform items.

*To determine suitable courses, contact the military science department.

Nursing

Associate of Science Degree Kuhn Hall 210, 625-9322

Faculty Box - Head, Elgin, Eller, Jacobs, Ketchum, Ross, Shippee

The Nursing program provides intensive preparation for an exciting career. Upon satisfactory completion of the associate degree in nursing, the graduate is eligible to apply to write the examination for licensure as a registered nurse (R.N.), barring restrictions stated in the state of Missouri Nursing Practice Act 335.066,1,2(1)-(14) of the state of Missouri. This program is accredited by Missouri State Board of Nursing and National League for Nursing.

In addition to admission to Southern, applicants are required to apply for admission to the department of nursing in Kuhn Hall. Applications should be submitted prior to December 15 preceding the fall semester in which the applicant wishes to enter. Each completed application is reviewed by the department of nursing Selection Committee. Criteria for selection include: ACT scores or college GPA, nursing entrance test, science courses and references. Class size is limited, therefore, admission is competitive. A list of projected expenses is available from the department of nursing.

Core Curriculum requirements should be selected with nursing adviser approval. Nursing courses must be completed in the prescribed sequence. Supporting science courses, in addition to nursing courses, must be completed with a grade of "C" or above as designated in the course descriptions for progression in the nursing curriculum.

The nursing program is based on the nursing process, development and wellnessillness. Individual and family development, safety and security, mobility, body processes, body defenses and the steps of the nursing process serve as organizing themes in the nursing courses. As a program outcome, students are expected to achieve the roles and competencies of the associate degree nurse. Legal, ethical, national and international issues, cultural diversity, communication, pharmacology, nutrition and rehabilitation are integrated in the nursing courses. Computer assisted instruction and interactive video are included in classroom and clinical teaching. Students provide direct care to patients under the supervision of nursing faculty in a variety of clinical settinas.

Associate of Science Degree in Nursing

	Semester H	lours
Core Requ	uirements (p. 36)	25
(Additional	satisfied by required cours	es)
	equirements	52
(See cours	se descriptions for prerequis	sites)
Nurs 100	Introduction to Nursing	
	Process	6
Nurs 110	Nursing Process with the	
	Developing Family*	9
Nurs 130	Nursing Process in	
	Psychiatric-Mental Health	
	Nursing*	4
Nurs 220	Nursing Process with	
	Adults I (WI)*	9
Nurs 240	Nursing Process with	
	Adults II*	9

Nursing / 153

Bio 306 Human Physiology and Anatomy* 5 Chem 100 Introduction to Chemistry* 5 Bio 231 Fundamentals of Medical Microbiology* 5

*See course descriptions for prerequisites.

Suggested Order of Study

Associate of Science Degree Major Code 5208 Nursing Major

Freshman Year 1st Semester

Course		Hours
Nurs 100	Intro to Nursing Process	6
Bio 306	Hum Phys & Anat*	5
CORE	[Eng 101 Comp I]	3
Math 30	Inter Algebra (or Math 130) 3
		17

*Bio 121 must be completed prior to Bio 306.
*Bio 306 must be completed prior to or concurrent with Nurs 100.

2nd Semest	er	- Sa
Nurs 110	Nurs Proc with Dev Fam	9
Chem 100	Intro to Chemistry **	5
Psy 100 OR	General Psychology	
Soc 110	Intro to Sociology	3
		17

**Chem 100 must be completed prior to or concurrent with Nurs 110.

Summer Session

Nurs 130	Nurs Proc in Psychiatric-Mer	ntal
	Health Nursing	4

Sophomore Year

1st Semester		
Nurs 220	Nurs Proc with Adults I (WI)	9
Bio 231	Fund of Med Microbio ***	5
CORE	[Literature or Fine Art]	3
		17

***Bio 231 must be completed prior to or concurrent with Nurs 220.

2nd Semeste		
Nurs 240	Nurs Proc with Adults II	9
CORE	[HPER 101 Physical Activity]	1
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[Comm 100 Oral Comm]	3
CORE	[PSc 120 or Hist 110]	3
	1	8

For additional information contact: Department of Nursing Office: Kuhn Hall 210 Phone: 625-9322

Nursing

Bachelor of Science Degree Kuhn Hall 210, 625-9322

Faculty Box - Head, Ayton, Singleton

The bachelor of science in nursing program (BSN) is designed exclusively for Registered Nurses. The goals of the BSN program are to: graduate professionals who are generalists prepared to function in various health care settings; prepare graduates to deliver nursing care to individuals, families and communities; provide a foundation for graduate education; and expand practice in the roles of the professional nurse.

Registered nurses are admitted to the College as transfer students or graduates of MSSC's ADN Program. In addition to the College's admission and transfer requirements, applicants to the BSN program must show evidence of: graduation from a stateapproved and National League for Nursing (NLN) accredited associate degree or diploma nursing program; cumulative GPA of 2.5 or above on a 4.0 scale; current registered nurse licensure or eligibility in the state of Missouri; junior level standing with 60+ credit hours (maximum of 64 credit hours from junior or community colleges may be transferred); three satisfactory professional nurse references and evidence of current nursing practice.

Spring semester graduates may be admitted conditionally as graduate nurses in the fall semester. These graduates must meet the same admission requirements as registered nurses. Employment in nursing practice is recommended. Evidence of licensure as a registered nurse following the writing of the NCLEX-RN will remove conditional status.

The National League for Nursing Mobility Profile II examination is a requirement for admission and validates 28 credits hours of nursing courses previously completed at the ADN freshman and sophomore levels. Diploma graduates receive 28 credit hours for nursing courses by examination: Care of the Client during Childbearing/Care of the Child; Care of the Adult Client; and Care of the Client with Mental Disorder. The examination grants credit for junior level nursing courses in a comparable four year generic RN program.

A decision score of 100 or minus one standard deviation (-20) from the mean on the NLN Mobility Profile II, Books 1, 2 and 3; and 75 percent on the Clinical Validation Examination are criteria for admission, validation/challenge.

Selection is competitive and based on the selection criteria.

Core Curriculum requirements for the bachelor of science degree may be met prior to beginning the nursing course sequence. Students entering the program must complete the upper level courses within five consecutive years.

Applications, readmission and transfer criteria are available in the nursing department in Kuhn Hall.

Bachelor of Science Degree in Nursing

Semester Hours Core Requirements (p. 35) 51 **Validation Examinations** 28 **Nursing Major Requirements** 40 Nurs 300 Concepts of Professional Nursing (WI) 3 Gerontic Nursing Nurs 315 3 **Nurs 320 Nursing Ethics** 3 **Nurs 330** Advanced Health 5 Assessment Nurs 400 Community Health 5 Nursing Nurs 405 Nursing and Healthcare 3 **Nurs 415** Nursing Research (WI) 3 **Nurs 430** Nursing Management and Leadership 5 **Nurs 498** Nursing Elective 3 **Bio 308** Human Pathophysiology 4 Psy 320 **Statistics** 3 Additional electives (include Comp 105) 9

Suggested Order of Study

Bachelor of Science Degree Major Code 3200 Nursing Major

Two Year Option

The state of the s	Semester Hours
Core Requirements	51
NLN Mobility Examination	28
Additional Electives*	9
Nursing Prerequisite:	
Bio 308 Human Pathophysiolog	gy** 4

154 / Nursing

Junior Year 1st Semester		
Course		Hours
Nurs 300	Concepts Prof Nurs (WI)	3
Nurs 315	Gerontic Nursing	3
Nurs 330	Adv Health Assessment	5
11010 000	Adv Hodilit Addoddinon	11
2nd Semeste	r	
Nurs 400	Community Health Nursing	9 5
Nurs 405	Nursing & Health Care	3
		8
Senior Year		
1st Semester	THE SUPPLY ROLL OF THE	
Nurs 320	Nursing Ethics	3
Nurs 498	Nursing elective	3
Psy 320	Applied Statistics***	3
. 0, 020	rippinou otationoo	9
2nd Semeste	r	
Nurs 415	Research in Nursing (WI)	3
Nurs 430	Nurs Mgmt & Leadership	5
		8
*Includes mis	rocomputor cource/validati	on

*Includes microcomputer course/validation
** See course descriptions for prerequisites

***Prerequisite: Math 110 or 130 must be completed prior to Psy 320.

Semester Hours

One Year Option

Core Requirements

NLN Mobility		28
Additional Ele	ectives*	9
Nursing Pre	requisites:	
Bio 308	Human Pathophysiology**	4
Psy 320	Applied Statistics**	3
Senior Year		
1st Semester		
Course		lours
Nurs 300	Concepts of Prof Nurs (WI)	3
Nurs 315	Gerontic Nursing	3
Nurs 320	Nursing Ethics	3
Nurs 330	Adv Health Assessment	5
Nurs 498	Nursing Elective	3
14013 430	radising Liective	17
		17
2nd Semeste	r	
Nurs 400	Community Health Nursing	5
Nurs 405	Nursing & Health Care	3
Nurs 415	Research in Nursing (WI)	3
Nurs 430	Nurs Mgmt & Leadership	5
	and a second supplemental second seco	16
		ALC: N

*Includes microcomputer course/validation

**See course descriptions for prerequisites

ADN-BSN Option

Freshman '	Year	
1st Semeste	er	
Course		Hours
Nurs 100	Intro to Nursing Process	6
Bio 306	Human Phys & Anatomy*	5
CORE	[Eng 101 Comp I]	3
Math 030	Inter Algebra (or Math 130)) 3
		17

Nurs Proc with Dev Fam Intro to Chemistry** General Psychology	9 5
Intro to Sociology	3
sion	
Nurs Proc in Psychiatric- Mental Health Nursing	4
Year	
Nurs Proc with Adults I (WI)	9
Fund of Med Microbio***	5
	3 17
Nurs Proc with Adults II [HPER 101 Physical Activity] [HPER 103 Lifetm Wellness] [COMM 100 Oral Comm] [PSc 120 or Hist 100]	
	Intro to Chemistry** General Psychology Intro to Sociology Intro Proc in Psychiatric- Intro Proc in Psychiatric- Intro Proc in Psychiatric- Intro Proc with Adults I (WI) Intro Proc with Adults II Inter Proc intro Physical Activity Intro Proc intro I

*Bio 121 must be completed prior to Bio 306. Bio 306 must be completed prior to or concurrent with Nurs 100.

**Chem 100 must be completed prior to or concurrent with Nurs 100.

***Bio 231 must be completed prior to or concurrent with Nurs 220.

NCLEX-RN

Nurs 405

Nurs 415

Nurs 430

The associate degree graduate is eligible to write the National Council License Examination for Registered Nurses.

Junior Year 1st Semester **Bio 308** Human Pathophysiology* CORE [Eng 102 Comp II] CORE [Math 110 or above] [PSc 120 or Hist 110 or 120] 3 CORE CORE [Literature or Fine Arts] 16 2nd Semester **Applied Statistics** Psy 320 3 Intro to Computers Comp 105 CORE [Econ 180 Amer Econ Sys] CORE [International Cultural Stu] CORE [PSc 120 or Hist 110 or 120] 3 CORE [Literature or Fine Arts] 18

Meet BSN Admission Requirements

Senior Year		
1st Semeste	r	
Nurs 330	Concepts of Prof Nurs (WI)	3
Nurs 315	Gerontic Nursing	3
Nurs 320	Nursing Ethics	3
Nurs 330	Adv Health Assessment	5
Nurs 498	Nursing Elective	3
		17
2nd Semeste	er	
Nurs 400	Community Health Nursing	5

Nursing & Health Care

Research in Nursing (WI)

Nurs Mgmt & Leadership

3

5 16 For additional information contact:

Department of Nursing Office: Kuhn Hall 210 Phone: 625-9322

Preprofessional Nursing (BSN)

The preprofessional nursing program is designed to prepare students for entrance into a baccalaureate degree nursing program. The basic Core Curriculum of the College with support courses are incorporated. Completion of preprofessional course requirements does not automatically assure admission to a baccalaureate program of nursing.

The suggested lower division curriculum includes:

Year 1		
Fall Semeste	er	
Bio 121	General Zoology	4
CORE	[Eng 101 Comp I]	3
CORE	[Math 130 College Algebra]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[HPER 101 Physical Activity	1
Comp 105	Intro Micro Comp	3
		17

Spring Seme	ester	
Bio 306	Human Phys & Anatomy	4
CORE	[Eng 102 Comp II]	3
CORE	[Econ 180 Amer Econ Sys]	3
Chem 100	Intro to Chemistry	5
CORE	[HPER 103 Lifetm Wellness]	2

Year 2 Fall Semeste Bio 211 CORE CORE CORE CORE	er Microbiology [Fine Arts] [Literature] [History] [Psy 100 Gen Psychology]	5 3 3 3 17
Spring Seme	ster	
Bio 308	Human Pathophysiology	4
CORE	[History]	3
CORE	[Political Science]	3
CORE	[International Cultural Stu]	3
Psy 305	Developmental Psychology	3

** The student should meet with a nursing adviser for the proper selection of courses for particular nursing program.

For additional information contact: Department of Nursing Office: Kuhn Hall 210

Phone: 625-9322

Paramedic, Pre-Engineering, Preprofessional, Prepharmacy / 155

Paramedic Program

Major Code 7008

In cooperation with the College's Division of Continuing Education, the School of Technology offers certificate programs preparing students to take state certifying examinations as Emergency Medical Technicians or as Paramedics. This is closely integrated with area Emergency Medical Services and hospitals. Students seeking information about these programs should check with the Director of Continuing Education for details about scheduling of the courses. The curriculum and its length varies with current Missouri state requirements.

ASS	ocia	te of	Arts

Core Reg	uirements		42
Bio 306	Human Physiology and		
	Anatomy*	5	
EMT Cou	rse	6	
EMT-P Co	ourse	18	
			71
*Satisfies	Core requirements		

Pre-Engineering

Reynolds Hall 208/212 625-9719/625-9540

Faculty Knapp, Phillips, Sloan

The physical science department at Missouri Southern, in cooperation with the engineering staff at the University of Missouri-Rolla and the University of Missouri-Columbia have prepared booklets describing the Cooperative Engineering Program between these schools and MSSC. These booklets list the course sequence for a student taking the first two or two and one-half years of an engineering science curriculum at Southern and planning to transfer to UMR or UMC. The plan also includes the courses the student will take at UMR or UMC to complete a B.S. degree in various engineering disciplines.

Although most of the engineering programs are standard for the first two years, there are a few differences and thus the student should meet with a pre-engineering adviser during the first semester. If a student wishes to transfer to a school other than UMR or UMC, it is suggested that the catalog of that school be reviewed for any differences in its program and the UMR or UMC outline. College catalogs are available in the Reserve area of Spiva Library. Any adviser who desires a

copy of the booklet should contact the physical science department.

	Semester	Hours
Core requi	rements** (p. 35)	25
Pre-engine	ering Requirements	45
Phys 250	General Physics I*	5
Phys 260	General Physics II*	5
Phys 312	Statics*	3
Chem 101	General Chemistry I*	5
Math 150	Calculus with Analytical	
	Geometry I*	5
Math 250	Calculus with Analytical	
	Geometry II*	5
Math 260	Calculus with Analytical	
	Geometry III*	5
Comp 120	Fortran****	3
Econ 201	Principles of	
	Economics (Macro)	3
Elective	(Math or Physics)***	3
Elective	(Humanities/Social Scient	nce/
	Drafting/Chemistry)***	3
		70

*See course descriptions for prerequisites.
**Required math and physics courses simultaneously satisfy Core Curriculum and major requirements.

***The student should meet with a pre-engineering adviser for the proper selection depending on the field of engineering.

****UMC prefers Comp 110 and requires this for electrical and computer engineering students.

Suggested Order of Study

Associate of Science Degree Major Code 5499 Pre-engineering Major

Freshman Year 1st Semester

Course		Hours
CORE	[Eng 101 Comp I]	3
Math 150	Calculus I	5
CORE	[Hist 110/120 U.S. Hist]	3
Chem 101	General Chemistry I	5
CORE	[Psy 120 College Orient]	1
CORE	[HPER 101 Physical Activ	vity] 1
		18
2nd Semest	er	

Math 250	Calculus II	5
Phys 250	General Physics I	5
Econ 201	Prin of Economics	3
CORE	[Fine Arts/Draft/Chem II]*	3-5
	1	6-18

Sophomore Year

1st Semester		
Math 260	Calculus III	5
Phys 260	General Physics II	5
Comp 120	Fortran**	3
CORE	[Sociology or Psychology]*	3
CORE	[HPER 103 Lifetm Wellness]	2
		8

ifferential Eq.	3
lectronic Circuits	4
hermal Physics (4)	
lassical Mechanic (3)	3-4
Comm 100 Oral Comm]	•
lumanities/Fine Arts1	3-6
	16-17
on	
	3
	lumanities/Fine Arts]

*Suggested elective (not strict requirements)
**UMC prefers Comp 110 and requires this for electrical and computer engineering students.

For additional information contact:

Dr. Russell Phillips

Office: Reynolds Hall 208

Phone: 625-9719

Preprofessional

Police Academy 113, 625-9328

Associate of Arts Degree

This curriculum is designated for Missouri Southern students to complete admission requirements for professional schools that will accept applicants who have completed approximately 60 hours.

Also, students who are completing certification requirements for paramedic programs and desire a college degree may choose this degree program.

Prepharmacy

Major Code		
Core Requ	uirements* (p. 35)	14
	nd 102 English Comp**	6
Chem 101	and 102 General	
	Chemistry**	10
Math 150	Calculus**	5
Social Scie	ences/Humanities**	14
Bio 306	Human Physiology and	
	Anatomy	5
Electives		10
		64

*28 hours of Core requirements are met by UMKC School of Pharmacy minimum requirements.

**UMKC School of Pharmacy minimum requirements.

156 / Radiologic Technology

Radiologic Technology

Kuhn Hall 210, 625-9322

Faculty Beals

The associate of science degree in radiologic technology combines Core Curriculum courses, supportive courses in the behavioral sciences and natural sciences and special courses in the field of radiology including extensive clinical laboratory experiences. The clinical laboratory experiences are provided through agreements between Missouri Southern and St. John's Regional Medical Center or other accredited facilities. The student successfully completing the curriculum is eligible to write the National Registry Examinations to become a Registered Technologist.

Completion of the degree requires the completion of Core Curriculum requirements for the associate of science degree, all radiologic technology courses, Bio 306, Bio 240, Chem 100 or Phys 100 and Psy 221. Applicants whose backgrounds have not prepared them for Bio 306 must meet these prerequisites before being admitted to the program.

Special admission procedures are required for admission to this program in addition to admission to Missouri Southern. These special admission procedures should be initiated a minimum of six months before the date the student would plan to enter the program. Students may enter the program only at the beginning of the fall semester.

In addition to established fees for all college students, special fees of \$100 for the first semester and \$40 for each succeeding term, including summers, are required for enrollment in radiology courses.

Students who are already Registered Radiologic Technologists may also enter this program.

Radiological course credit will be granted to the Registered Radiologic Technologist, equal to that granted to the graduating associate of science student, at the time the Registered Radiologic Technologist starts the program. A minimum of 30 additional academic semester hours is required. This credit must include the general education requirements for the associate of science degree plus a concentration of courses in one of the subject matter areas of business (accounting and secretarial procedures or business management), behavioral sciences or natural science (concentration in either biology, chemistry or physics).

Associate of Science in Radiologic Technology

	Semester Ho	ours
Core Requi	irements	25
Radiology	Requirements	.55
Rad 101	Introduction to Radiology*	3
Rad 111	Medical Terminology	3
Rad 121	Patient Care and Special	
	Procedures in Radiology	3
Rad 132	Prin of Radiographic	
	Exposure	3
Rad 142	Radiographic Pos I	3
Rad 160	Film Critique	2
Rad 170	Radiologic Physics	3
Rad 180	Practicum in Radiology	4
Rad 241	Radiographic Pos II	3
Rad 252	Radiographic Pos III	3
Rad 282	Practicum in Radiology II	2
Rad 290	Practicum in Radiology III	4
Rad 299	Advanced Radiology	3
Bio 306	Human Physiology and	
	Anatomy*	5
Chem 100	Elementary Chemistry**	
OR		
Phys 100	Fundamentals of Physical	250
	Science	5
Psy 221	Psychology of Personal	
	Adjustment	3
Bio 240	Radiation Biology*	3
		7

*See course descriptions for prerequisites.

**Satisfies Core Curriculum Requirement.

Suggested Order of Study

Associate of Science Degree Major Code 5207 Radiologic Technology Major

Freshman Year

rail Sellies	tei	
Course		Hours
Bio 306	Human Physi & Anatomy**	5
Rad 101	Intro to Radiology	3
Rad 170	Radiologic Physics	3
Rad 142	Radiographic Pos I	3
CORE	[Psy 120 College Orient]	1
CORE	[HPER 101 Physical Activity	ty] 1
		16

Spring Seme	ester	
Math 130	College Algebra	
OR		
Math 30	Intermediate Algebra	3
Psy 100	General Psychology	3
Bio 240	Radiation Biology	3
Rad 132	Prin of Radiographic Exp	3
Rad 241	Radiographic Posi II	3
CORE	[HPER 103 Lifetm Wellnes	s] 2
		17

Summer S	emester*	
Rad 160	Film Critique	2
Rad 180	Practicum in Radiology I	4
		6

Sophomore Year Fall Semester

Chem 100 OR	Intro Chemistry		
Phys 100 CORE	Fund of Phys Sci [Eng 101 Comp I]	5 3	
Psy 221	Psy of Personal Adjustment	3	
Rad 111	Medical Terminology	3	
Rad 252	Radiographic Pos III	3	
		17	
Spring Semester			
CORE	[Hist 110 or PSc 120]	3	
CORE	[Comm 100 Oral Comm]	3	
Rad 121	Pat Care & Spec Pro	3	
Rad 282	Practicum in Radiology II	2	
CORE	[Literature or Fine Arts]	3	
		14	
Summer Semester			
Rad 290	Practicum in Radiology III	4	
Rad 299	Advanced Radiology	3	
00	· · · · · · · · · · · · · · · · · · ·	7	

[Department Recommendations]

*Summer classes meet a minimum of 12 weeks.
**Placement in Bio 306 will depend on pre-entrance zoology test scores or completion of Bio 121.

For additional information contact:

Mr. Wiley Beals Office: Kuhn Hall 300

Phone: 625-9323 or 625-9322

OR

Mr. Donald L. Seneker Office: Police Academy 113

Phone: 625-9328

Courses • Aviation, Drafting and Design / 157

Course Descriptions

Aviation (Av)

5 hrs. cr.

Basic Pilot Training

An integrated course designed to meet ground school and flight training requirements for eligibility to take the Federal Aviation Administration examination for a Private Pilot Certificate. In addition to scheduled ground school classes, the course requires approximately 45 hours of dual and solo flight and check flight. Credit is awarded when the FAA certificate is obtained. Special fees and a third class medical certificate are required. Special fees for this course include plane rental and examiner's test fee. Course grade is recorded as Pass or Fail.

Computer Aided Drafting and Design (CADD)

CADD 110 (F, S) Introductory Drafting 3 hrs. cr.

Includes use of instruments, geometric construction, lettering, orthographic projection, dimensioning, sections and conventions, auxiliaries and pictorial drawings. One hr. lecture, 4 hrs. lab per week. Corequisite: CADD 115.

CADD 115 (F, S)

3 hrs. cr.

Intro to Computer Aided Drafting

Computer aided drafting and the operation of a computer drafting system. Should be taken concurrently with Drafting 110 by students who have had no college drafting courses. Individuals who have a background in drafting will be able to take the course for personal or professional improvement, with consent of instructor. One hr. lecture per week, 4 hrs. lab per week.

CADD 120 (S)

3 hrs. cr.

Descriptive Geometry

Practical applications of advanced projection techniques to problems in civil, structural, mechanical and architectural engineering. Manual and computer assisted projects on methods are introduced. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 110.

CADD 130 (S)

Machine Drafting

Detail and assembly drawings of machines and machine elements. Survey of the use of machine tools, processes and materials in the design and fabrication of machine parts. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 110.

CADD 202 (Demand) **Tool Design**

Principles of tool design with emphasis on the design and graphical representation of common jigs and fixtures used in the manufacturing industry using manual and computer methods. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD

CADD 204 (F)

3 hrs cr

Mechanical Design

Principles of mechanical design with emphasis on proper selection, function and graphical representation of common machine components. Formulas, vendor catalogs and commercial computer software will be used to select components. One hr. lecture, 4 hrs. lab per week. Prerequisites: CADD 120 & 130.

CADD 210 (S)

3 hrs. cr.

Technical Illustration

Pictorial drawing with an emphasis on mechanical and architectural applications. Major topics include mechanical illustrations, exploded views and perspectives drawn manually and with a computer aided drafting system. Drawing media such as polyester film, ink, illustration board. lettering systems and air brushes will be introduced. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 110 or consent of instructor.

CADD 220 (S)

3 hrs. cr.

Architectural Drafting

Principles of architectural design, preparing sets of working drawings, building details and use of modern construction materials for residential building. Manual and computer aided design techniques used throughout the course. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 110 or consent of instructor.

CADD 230 (F)

Survey & Mapping

Theory, principles and practices of surveying and mapping as applied to construction, site plans and right-of-way planning. Use and care of survey instruments and equipment. Survey reports and computations and preliminary surveys stressed. Calculations conducted manually and with commercial computer software. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 110 or consent of instructor.

CADD 260 (F, S)

3 hrs. cr.

Computer Aided Drafting

Preparation of drawings in mechanical, civil, architectural, structural and electronics using a computer aided drafting system. A variety of commercial CAD software packages will be used to assist the advanced student in developing skill and knowledge in the use of a CAD system to prepare drawings in one or more drafting fields. Three 1 hr. lectures per week, open labs as required. Prerequisites: CADD 110, CADD 115 and one or more drafting specialty courses from the following: CADD 130, CADD 202, CADD 220 or CADD 230. A student having industrial drafting experience may be admitted with consent of instructor if CADD 115 or equivalent industrial training course has been completed.

CADD 310 (F)

Computerized Production Planning and Control Systems

Theory and application of computer-automated process planning (CAPP) systems as they relate to the study of computer-integrated manufacturing (CIM). Three hrs. lecture, labs are arranged. Prerequisite: CAMT 160.

CADD 330 (S)

3 hrs. cr.

Computer Machine Design

Instruction in the principles, theory and applications of machine design utilizing the CAD workstation. Special emphasis on solid modeling and design analysis. Three hrs. lecture labs are arranged. Prerequisite: CADD 130.

CADD 490 (Demand)

1-8 hrs. cr.

Internship in Drafting and Design

A structured work experience in drafting/design at an institution, facility or industry not directly related to Missouri Southern. The work experience will be a practical application of the student's major field of study under the direct supervision of an on-site professional who is not a Southern faculty or staff member. The on-site professionals will supervise the student's activity in the field. A faculty member will be responsible for approving the placement site and supervising the overall activities of the internship. Prerequisite: 15 hrs. of CADD & committee approval.

CADD 298 (Demand)

1-8 hrs. cr.

Special Topics Draft/Design

A special topic or topics not normally included in another drafting/design course. Prerequisites determined by the department and stipulated in a course syllabus.

CADD 498 (Demand)

1-3 hrs. cr.

Seminar in Drafting & Design

Specialized knowledge and skills related to new developments in drafting and design. Topics will vary by the semester and situation. Prerequisite: An associate degree in drafting & design or senior standing in management-technology or industrial technology.

CADD 499 (Demand)

1-3 hrs. cr.

Independent Study in Drafting & Design

Individually directed reading, research and discussions in selected areas of drafting and design for advanced majors. Scope, depth, area of concentration and credit hours will be arranged when registering for the course. Offered by arrangement. Prerequisite: 15 hrs. of drafting with 3.0 GPA and permission of instructor, department head and school dean.

158 / Courses • Manufacturing, Computer Science

Computer Assisted Manufacturing Technology (CAMT)

CAMT 100 (F, S)

3 hrs. cr.

Intro to Machine Tool Processes

The theory and safe operation of basic machine tools. Fundamental practices include: safety, basic mathematics, blue print reading, benchwork, precision measurement, metal sawing, drills and drilling, pedestal bench grinding, engine lathes, shapers, mills and pantographs. One hr. lecture, 4 hrs. lab per week.

CAMT 105 (F, S) 4 hrs. cr. Intermediate Machine Tool Processes

An introduction to the operation of surface, cylindrical, tool and cutter grinders. Principles of inspection and gaging, applied trigonometry, tooling geometry and advanced lathe and milling practices will be covered. Two hrs. lecture, 6 hrs. lab per week. Prerequisites: CAMT 100, CADD 110, Math 130 or consent of instructor.

CAMT 150 (F, S) 3 hrs. cr. Modern Manufacturing Process

A survey of modern manufacturing processes in which raw materials are converted into products. Introduction and application to the principles of forming, traditional and contemporary casting, molding, nontraditional machining, joining, automated assembly, flexible manufacturing and computer integrated manufacturing.

CAMT 160 (S)

2 hrs. cr.

Inspection and Gaging

Inspection, gaging and precision measurement procedures utilizing mechanical, electronic and optical measuring equipment and related math. Geometric dimensioning and tolerancing emphasized. Computer assisted process control methods are introduced and applied to specific inspection procedures. One 1-hour lecture, one 2-hour lab per week. Prerequisites: CAMT 100, CADD 110, Math 130 and Math 112 or consent of instructor.

CAMT 200 (F, S)

3 hrs. cr.

Computer Numerical Control

Basic numerical control concepts and its applications, the operation of numerical control system, numerical control programming as applied to machining applications using MDI. One hr. lecture, 4 hrs. lab per week. Prerequisites: CAMT 100, CADD 110, Math 30 or 112 or consent of instructor.

CAMT 210 (S)

3 hrs. cr.

Computer Animation For Industry

Fundamentals of computer animation on a personal computer focusing on industrial applications, such as product promotion and marketing, motion simulation of machine elements and mechanisms, and its use in presentation, training and instruction. Involves imparting movement and photorealistic appearance to geometric shapes and models. One hour lecture and 4 hrs. lab per week. Prerequisites: CADD 115 or COMP 105 or permission of the department.

CAMT 220 (F)

3 hrs. cr.

Fundamentals of Robotics

Fundamental concepts underlying robot programming and its applications in the manufacturing industry. Covers operation of an industrial robot arm, both leadthrough and textual programming, end effector design, interfacing with computers and CNC machines and control systems. One hour lecture and 4 hr. lab per week. Prerequisites: CAMT 100 or consent of instructor.

CAMT 240 (S)

3 hrs. cr.

Industrial Materials

Introduction to metallurgy and nonmetallic materials currently used in today's modern manufacturing settings. Theory and application of principles for identifying, producing, conditioning and testing materials. Laboratory activities involve both manual and computer assisted testing. One hr. lecture and 4 hr. lab per week. Prerequisite: CAMT 150.

CAMT 250 (S)

3 hrs. cr.

Computer Assisted Manufacturing

Advanced techniques of CNC & N/C programming using a completely integrated environment. Concepts of manufacturing programs being an integral part of a dynamic environment as compared to being in an isolated system. One hr. lecture, 4 hr. lab per week. Prerequisites: CAMT 200 or consent of instructor.

CAMT 298 (Demand)

1-8 hrs. c

Selected Topics in Manufacturing

Technology

Special topics in new or emerging manufacturing technology that are not normally included in another course. Prerequisites will be specified by the department in a course syllabus.

CAMT 310 (F)

4 hrs. cr.

Manufacturing Data Processing

Designed to teach overall data processing techniques as relating to the manufacturing environment. A solid foundation of manufacturing processes and departmental structuring is required in addition to a knowledge of microcomputer usage. Two hrs. lecture, 6 hrs. lab per week. Prerequisites: CAMT 100, Comp 105 or PC DOS, CADD 115, Acct 201 or consent of instructor.

CAMT 330 (F)

3 hrs. cr.

Quality Control and Reliability

The concept of quality control and its applications. The importance of quality control, tools and techniques of SPC/SQC covering control charts used in quality control analysis, inspection and testing for quality control, process variability, product reliability and maintainability. Two hrs. lecture, 4 hrs. lab per week. Prerequisites: CAMT 100 & 160, Comp 105 or PC DOS, Math 310 or GB 321 or GB 405 or consent of instructor.

CAMT 490 (Demand)

1-8 hrs. cr.

Internship in Manufacturing Technology
A structured work experience in manufacturing technology at an institution, facility or industry not directly related to Missouri Southern. Practical application of the student's major under the direct supervision of an on-site professional who is not an MSSC faculty or staff member. A faculty member will be responsible for approving the placement site and supervising the overall activities of the internship. Prerequisite: 15 hrs. of CAMT courses and permission of a committee.

CAMT 498 (Demand)

1-3 hrs. cr

Seminar in Manufacturing Technology

Covers specialized knowledge and skills related to new developments in manufacturing technology. Topics will vary by the semester and situation. Prerequisite: Senior standing in management-technology or an associate degree in manufacturing technology.

CAMT 499 (Demand)

1-3 hrs. cr.

Independent Study in Manufacturing

Technology

Individually directed reading, research and report preparation in selected areas of contemporary manufacturing technology, for advanced majors. Scope, depth and area of concentration and credit will be arranged when enrolling in the course. Offered by arrangement. Prerequisite Completion of required manufacturing technology courses with minimum 3.0 GPA and permission of instructor, department head and school dean.

Computer Science (Comp)

Comp 105 (F, S)

3 hrs. cr.

Introduction to Microcomputer Use

The fundamental use of microcomputers through packaged software and the microcomputer disk operating system (DOS). The student will be introduced to word processing, spreadsheets, file management, and communications tools to aid in productivity and to develop a degree of confidence in the use of microcomputers.

Comp 110 (F, S)

Programming I

Introduces problem analysis and program design. The emphasis is on proper programming style to include modularity and structured design. The student will learn fundamentals of programming including data types, simple input and output, selection, iteration, and array processing. The language of implementation will be Pascal. Corequisite: Math 130 or above.

Comp 115 (F, S)

3 nrs. cr

Programming in BASIC

Introduces the BASIC programming language. The intent is to provide a service for non-majors. Problem analysis and program design will be emphasized. The student will learn syntax and language features through arrays and files. Corequisite: Math 130 or above.

Comp 120 (F) FORTRAN

3 hrs. c

Introduces the FORTRAN programming language and includes applications from mathematics, statistics, and engineering. Prerequisite: Math 130 or above.

Courses • Computer Science / 159

Comp 200 (Demand) Advanced BASIC 3 hrs. cr.

Continued development of the programming and problem solving skills introduced in Comp 115. Topics covered include techniques for designing and implementing microcomputer-based menudriven systems and methods for producing business graphics displays. Prerequisite: Comp 115 or permission of department head.

Comp 210 (F, S) Programming II 3 hrs. cr.

Continued development of the programming and problem solving skills introduced in Comp 110. Structured programming and modular design are emphasized. The students knowledge of data structures is extended to include an indepth coverage of strings, arrays, records, and files. The student is introduced to pointers, linked lists, stacks, and queues. The language of implementation is Pascal. Prerequisite: Comp 110.

Comp 230 (S)

3 hrs. cr.

Report Program Generation (RPG)

Introduces the programming language RPG II/III/400 which is designed for quick and efficient production of business reports. Course content will include language syntax and practice in preparing, compiling, and executing applications of increasing complexity. Prerequisite: (Comp 110 or above) or consent of department head.

Comp 234 (F)

3 hrs. cr.

Business Data Processing Techniques (COBOL)

Methods and techniques for solving business related problems using a business oriented language (COBOL). Applications may include payroll systems, inventory control systems, billing systems, sorting techniques, and file maintenance. Prerequisite: Comp 210 or consent of department head.

Comp 240 (Demand)

3 hrs. cr.

Statistical Computer Applications

Programming techniques which are unique to the implementation of selected statistical analysis algorithms. Applications covered include quality control, data distribution analysis, parameter estimation, regression analysis, forecasting, and curve fitting. Prerequisite: Comp 210 and (Math 361 or Math 462).

Comp 298 (Demand)

1-3 hrs. cr.

Selected Topics in Computer Information Science

Study of special topics in Computer Science and Information Systems. Each offering will be on a subject not normally included in another course. Prerequisites will be specified by the department in a syllabus.

Comp 301 (Demand)

3 hrs. cr.

Principles of Digital Computing

Hardware and software concepts which are pertinent to the design of digital computers. Topics covered include data representation techniques, computer circuits, assemblers, compilers, loaders, I/O programming, microprocessors, memory hierarchy, memory management, and operating systems. Prerequisite: Comp 210 or above.

Comp 302 (S)

3 hrs. cr

Concepts of Information Systems and

Data Communications

Develops understanding of an organization's information requirements and examines the design of information systems that facilitate the management of the organization. The criteria used to select appropriate hardware and software are investigated. An emphasis is placed on data communication concepts. Prerequisite: Acct 202 and (CIS 305 or MM 337) or consent of the department head.

Computer Information Science (CIS)

CIS 305 (F, S)

3 hrs. cr.

Microcomputer Applications

For experienced users of computer systems who wish to become proficient in a variety of the most common microcomputer applications. Microcomputer based operating systems, user interfaces, word processing, spreadsheets, graphics, communications, and database management systems will be addressed. Special emphasis is placed on the configuration and customization of commercial software packages, as well as the features within these packages which provide for the automation of problem solutions. Prerequisite: (Comp 105 or above) or MM 237.

CIS 320 (Demand)

3 hrs. cr.

Operations Modeling

Analytical and simulation

Analytical and simulation techniques used in the modeling of business operations for the purpose of managerial decision support. Typical problem areas covered include scheduling, service queues, resource allocation, production planning, transportation, distribution, marketing, product mix, forecasting, bidding, portfolio analysis, etc. Prerequisite: Comp 210 or consent of instructor.

CIS 321 (F)

Interactive RPG/400

On-line programming of business applications. Major topics include file creation and maintenance, structured methodologies, advanced features of RPG III/400, and the IBM AS/400 environment. Prerequisite: Comp 230 or consent of instructor.

CIS 330 (S)

3 hrs. cr.

3 hrs. cr.

Assembly Language

Introduction to low-level machine architecture and assembly language programming using the IBM PC. The topics to be covered include data representation, instruction set, program logic, and problem solving. In addition to the assembly, linking, and execution of programs; debugging, optimization, and interfacing to high-level languages will be practiced. Prerequisite: One 200 level programming class.

CIS 334 (S)

3 hrs. cr.

Advanced Structured COBOL

On-line programming of business applications utilizing CICS. File creation and maintenance (VSAM), structured methodologies, and advanced features of COBOL are major topics. Prerequisite: Comp 234 or consent of instructor.

CIS 335 (F)

3 hrs. cr.

Programming in C

Introduction to problem solving using the C programming language. Topics will include low level architecture, data types, machine independent programming, structured design as applied to large systems of programs, and the syntax and semantics of an ANSI standard C implementation. Linking C both to assembly language and high-level languages will be considered. Prerequisite: Comp 210 or consent of instructor.

CIS 340 (Demand)

3 hrs. cr.

Computer Simulation
Introduction to simulation languages and techniques which are used to solve many types of research problems encountered in management, science, and engineering. Topics include simulation concepts, language syntax, problem analysis, solution design, and data preparation and analysis. Prerequisite: Comp 210 and (Math 361)

or Math 462). CIS 345 (S)

3 hrs. cr.

Computer Networks

Introduction to the hardware and software which are integrated to form a computer network. The topics covered will include data communication hardware, the seven protocol layers of the OSI ISO reference model, public networks such as Internet, and the design and management of local area networks. Prerequisite: CIS 335.

CIS 346 (Demand)

2 hrs. cr.

Teaching Computer Science in Secondary School

Methods for teaching computer science/data processing subjects in secondary schools. It serves as part of the professional semester.

CIS 350 (S)

3 hrs. cr.

Data Structures

Continued development of the students knowledge of data structures. This includes an in-depth coverage of pointers, linked lists, stacks, queues, binary trees, and graphs. Special emphasis is placed on the coverage of algorithms that are designed to efficiently manipulate these structures and techniques for selecting the most appropriate data structures for a given application. Prerequisite: Comp 210.

CIS 360 (S, Odd)

3 hrs. cr.

Computer Graphics

Interactive computer graphics programming including windowing, clipping, two and three dimensional transformations, perspective projections, curved surface modeling, light, and color. The functional capabilities of computer graphics systems and their applications will be covered. Prerequisite: Math 150 and Comp 210.

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CIS 400 (S)
Computer Colloquium

1 hr. cr.

3 hrs. cr.

Students have the opportunity to make and attend individual presentations on computer topics of current and special interest. These topics are researched and organized by the student presenters and should make use of the best available software and media tools. Supplemental topics are presented by faculty and invited area computer professionals. May be repeated once for credit. Meets 2 hours per week for 1 hour credit. Prerequisite: Upper division standing.

CIS 401 (S) 3-8 hrs. cr. Internship in Computer Information Science A limited number of Computer Information Science students may serve an internship of 15 to 20 hours per week for up to 16 weeks. Credit hours will be arranged through the coordinator of the internship program. The intern will work for a local, cooperating firm in a production data processing environment gaining valuable experience in programming and/or systems analysis and design. The on-site work will be supervised by a professional employee of the firm and overseen by an MSSC faculty member. Prerequisite: Upper division standing, department approval, and an overall GPA of 3.00.

CIS 410 (F) 3 hrs. cr. Information Systems Analysis and Design Continued development of the student's ability to analyze and design computer based management information systems. This includes an indepth coverage of analysis and design methodologies, computer-aided software engineering tools, and project management techniques. Teamwork is emphasized. Prerequisite: Comp 302.

CIS 425 (S)

Database Management Systems

(Writing Intensive)

Survey of database management theories and experience in the application of database technology. An emphasis will be placed on the relational model. Functions of database management systems, data modeling, and database design are stressed. Prerequisite: Comp 234.

CIS 430 (F, Odd) 3 hrs. cr. Introduction to Artificial Intelligence

Introduces the process of developing intelligent computer software. Al topics which are covered include knowledge abstraction and representation, heuristic search techniques, expert systems, language processing, machine learning, and meta-programming. Prerequisite: CIS 350 and Math 300.

CIS 450 (F) 3 hrs. cr.

Operating Systems (Writing Intensive)
Fundamental concepts of operating system design. The emphasis is on identifying the problems that an operating system must solve and considering the range of alternative solutions which may be implemented. Topics include process management, memory management, processor management, auxiliary storage management, and security. The UNIX operating system is highlighted. Prerequisites: CIS 335 and CIS 350.

CIS 460 (Demand)

3 hrs. cr.

Programming Languages

Mechanisms and formality behind language structure, particularly as applied to some of the more modern and esoteric computer programming languages. A formal approach to syntactic analysis, grammars, and parsing techniques will lead into an introduction to automata and their relation to language and problem solving. Several diverse programming languages will be examined with example programs to be written in each. Prerequisite: Two programming language courses.

CIS 498 (Demand) 1-3 hrs. o Seminar in Computer Information Science

Addresses emerging topics in computer science and management information systems. Each offering will be on a subject not normally included in another course. Prerequisite: Upper division standing with an overall GPA of 3.0 or above. Other prerequisites may be specified in each course syllabus.

CIS 499 (Demand) 1-3 hrs. cr. Independent Study

An independent study course is structured by the adviser with approval of the department head. Prerequisite: Upper division standing with an overall GPA of 3.0 or above. Registration in the course must be approved by the advisor, the department head, and the dean of the school.

Criminal Justice Administration (CJAd)

CJAd 230 (S) 3 hrs. cr. Introduction to Security Overview of the security industry and its role in loss prevention. Public versus private security roles for retail business, industrial and governmental protection. Basic principles such as target hardening and current problems.

CJAd 210 (F, S) 3 hrs. cr. Basic Photography

Lecture and laboratory procedures for use of cameras, lenses, developing negatives and prints and enlarging.

CJAd 325 (S) 3 hrs. cr.

Physical Security
Physical aspects of the security industry and its role in loss prevention for retail business, indus-

role in loss prevention for retail business, industrial and governmental protection. Consideration of barriers and perimeter protection, alarm systems, computer and hazardous materials protection and survey techniques. Prerequisite CJAd 230 Introduction to Security, or instructor's permission.

CJAd 260 (F, S) 3 hrs. cr. Legal and Technical Aspects of Firearms

History and development of firearms. The nomenclature of the most commonly used police firearms and the duties and requirements of a rangemaster. The laws concerning firearms acquisitions, ownership and use. Three hrs. lecture per week. Additional lab time arranged. CJAd 298 (Demand) 1-8 hrs. cr. Special Topics in Criminal Justice Administration

Course content varies and is designed to meet current needs and interests in the rapidly changing field of criminal justice administration. Precise topics are announced with prerequisites stipulated in the course syllabus.

CJAd 300 (S) 3 hrs. cr.

Criminal Investigation II

Major case investigative methods, sources of information, development of leads, methods applicable to organized crime and specific offenses.

CJAd 301 (F) 3 hrs. cr. International Justice Systems

A study of justice systems around the world, comparing them to America's justice system. Course considers the three important components of a justice system; police, courts, and corrections. Includes cultural differences of the countries studied as they relate to their justice system.

CJAd 310 (F) 3 hrs. cr.

Traffic Accident Investigation and Control

Theory and techniques for investigation and reducing occurrence of motor vehicle accidents, collection and evaluation of physical evidence reporting. CJAd 320 (S) 3 hrs. cr. Probation and Parole Study of presentence investigation methods, predicting parole behavior, supervisory practices, legal aspects, the use of amnesty and pardons. Prerequisites: LE 100, Soc 110 or instructor's permission.

CJAd 330 (F) 3 hrs. cr.

Loss Prevention Techniques

Security techniques in loss prevention for retail business, industry, governmental protection, hotel and motel, hospital, school, transit systems and utilities. Prerequisites: CJAd 230.

CJAd 331 (Demand) 3 hrs. cr. Administration of Security Systems

The security administrator's role in business, industrial and governmental protection. Organizing, training, managing and designing security programs. Prerequisites: CJAd 230, CJAd 325 or CJAd 330 or instructor's permission.

CJAd 340 (S) 3 hrs. cr.

Basic Color Photography
Basic color theory concepts used in the produc-

tion of color transparencies and color prints. Lab fee. Prerequisite: CJAd 210 or permission of instructor.

CJAd 350 (S) 3 hrs. cr.

Fish and Game Enforcement

Problems and procedures encountered and used by conservation enforcement officers. Laws and enforcement procedures.

CJAd 400 (Demand) 3 hrs. cr.

Homicide Investigation

Legal and criminalistics concepts and procedures for the medico-legal investigation of death due to natural, accidental, suicidal or criminal cause. Prerequisite: LE 200 or permission.

Courses • Dental Hygiene / 161

CJAd 410 (F)

3 hrs. cr.

Juvenile Procedures

Juvenile and family court procedures and substantive law as applied to the youthful offender. Procedures for juvenile officers such as collection of evidence, taking into custody and development of the case. Prerequisite: LE 210 or permission.

CJAd 411 (S)

3 hrs. cr.

Juvenile Corrections

Overview of the design and legal requirements of juvenile correctional institutions including an analysis of the juvenile interstate compact laws and management principles of juvenile correctional institutions. Prerequisite: Soc 110.

CJAd 412 (F)

3 hrs. cr.

Correctional Practices

History of corrections as it relates to correctional practices. In-depth study of the rights of the incarcerated inmate as well as the powers and duties of the correctional officer. Prerequisites: LE 100 or permission.

CJAd 450 (S)

3 hrs. cr.

Criminal Evidence

Rules of evidence, admissibility, presumptions, inferences, burden of proof and exceptions to the hearsay rule. Prerequisite: LE 210, LE 250.

CJAd 490 (Arr)

4-8 hrs. cr.

Internship in Criminal Justice

Extensive practical experience with an area criminal justice agency, subject to individual committee approval. Not open to those who have taken LE 180. Prerequisite: Junior or senior standing, CJAd major, department approval, overall GPA 2.5 and a CJAd GPA 3.2.

CJAd 498 (Demand)

1-3 hrs. cr.

Seminar in Criminal Justice

A survey of current advances in the field. Precise topics to be announced, for upper division majors in CJAd or those who have completed the A.S. degree in law enforcement. Prerequisite: permission of instructor.

CJAd 499 (Arr)

1-3 hrs. cr.

Independent Study in Criminal Justice

Individually directed study for advanced majors in area of criminal justice selected with adviser approval. Proposal must be approved by program director and school dean. Prerequisite: 3.5 GPA in major area or permission.

Dental Hygiene (DH)

DH 101 (F)

4 hrs. cr.

Fundamentals of Dental Hygiene I

Introduction to fundamental theories, principles and procedures necessary to provide dental hygiene services. Theories and principles are applied in clinical laboratory setting. Two hrs. lecture, 6 hrs. lab per week.

DH 102 (S)

4 hrs. cr.

Fundamentals of Dental Hygiene II

Continuation of DH 101 with further enrichment of skills necessary to perform preventive oral health services. Theories and principles are applied in clinical laboratory setting. Two hrs. lecture, 6 hrs. lab per week. Prerequisites: DH 101 with minimum grade of "C" or instructor's permission.

DH 140 (F)

1 hr. cr.

Dental Morphology

Detailed study of morphology of deciduous and permanent teeth in relation to fossal cusps, grooves, ridges, roots and the relationship of form and function. Occlusion and malocclusion are studied according to their relationship to dental health. A self-instructional program supplemented by one hr. lecture per week.

DH 150 (F)

3 hrs. cr.

Oral Histology and Embryology

Study of the gross and microscopic development of the teeth, supportive structures of the teeth and embryology and anatomy of head and neck region. Two hrs. lecture, 3 hrs. lab per week.

DH 160 (S)

2 hrs. cr.

Dental Radiology

Theory and technique of exposing, developing, mounting and care of dental radiographs. Interpretation of radiograph findings is discussed, principles of radiation safety are emphasized. One hr. lecture, 4 hrs. lab per week.

DH 190 (Summer)

3 hrs. cr.

Clinical Dental Hygiene I

Introduction to clinical practice of dental hygiene. Experience in providing patient services through performing oral prophylaxis, exposing and processing radiographs, presenting patient education, applying fluoride, charting the oral cavity, etc. Treatment and prevention of dental office emergencies is covered in the lecture session. One hr. lecture, 1 seminar and 16 hrs. lab per week. Prerequisite: DH 102 with minimum grade of "C" or instructor's permission.

DH 200 (F)

3 hrs. cr.

Dental Health Education

Fundamentals of teaching and learning theories. Development of teaching units and lesson plans for various public groups and/or organizations, practical experience in public schools and community groups and experience in providing dental health education to mentally and physically handicapped and geriatric patients. Three hrs. lecture per week.

DH 210 (Summer) Perio-Pathology 3 hrs. c

311

Lectures and laboratory periods are devoted to the study of oral pathological conditions, including etiology, degenerative process, inflammation and immunity. Etiology, classification, treatment and prevention of periodontal disease is stressed. Six hrs. lecture per week. DH 220 (S)

3 hrs. cr.

Dental Materials

Information about various dental materials. Students learn to make alginate impressions, plaster models and manipulate other materials. Required course for dental hygiene curriculum. Prerequisite: DH 101 Fundamentals of Dental Hygiene "I" with a "C" or above or instructor's permission. Two hrs. lecture, 2 hrs. lab per week.

H 290 (F)

5 hrs. cr.

Clinical Dental Hygiene II

Continuation of DH 190 with added responsibilities as skills develop. Lecture information on advanced dental hygiene techniques and techniques for local anesthesia and pain control. Practical experience in infiltration anesthesia during the laboratory session. Multicultural experience is gained through rotations in extended campus facilities. One hr. lecture, 16 hrs. clinical lab per week. Prerequisites: DH 190 with minimum grade of "C" or instructor's permission.

DH 310 (S)

2 hrs. cr

Nutrition

Nutrition and diet as related to dental health, biochemistry of digestion and the utilization of nutrients. Special emphasis on dietary analysis as part of total health care and the role of the dental hygienist in providing nutritional counseling. Two hrs. lecture per week.

DH 320 (F)

2 hrs. cr.

Pharmacology

Principles of drug actions and characteristics of major drug groups including sources of drugs, methods of their administration, classification, dosage, therapeutic action and drug interactions. Emphasis on drugs affecting oral health and drugs used in dentistry. Two hrs. lecture per week.

DH 330 (S)

80 (S)

3 hrs. cr.

Ethics and Community Dentistry
Professional ethics and commitment, professional organizations, state practice acts and practical consideration of methods and problems associated with operating and maintaining a dental practice. Definition and identification of the scope of public and dental public health. Consideration of philosophy; health legislation; federal, state and local health programs; needs and demands for dental care; and mechanisms for financing dental care. Three hrs. lecture per week. Prerequisites: DH 200 with minimum grade of "C."

DH 390 (S)

5 hrs. ci

Clinical Dental Hygiene III

Continuation of DH 290. Clinical experience in advanced clinical procedures and dental assisting procedures, including experience in extended campus facilities. Principles of four-handed dentistry in the lecture portion and discussion of the eight recognized dental specialties including their relationship to preventive dentistry. One hr. lecture, 16 hrs. lab week. Prerequisite: DH 290 with minimum grade of "C" or instructor's permission.

162 / Courses • Environmental Health, Law Enforcement

Environmental Health Technology (EHT)

1-8 hrs. cr.

Selected Topics in Environmental Health

Special topics in environmental health not normally included in another course. Prerequisite: Bio 112 and 122.

EHT 300 (Demand)

4 hrs. cr.

Environmental Geology

Introduction to man's relationship to the earth's environment. Limitations of natural resources and future projections are considered along with man's demands on the environment. Oil spills, surface mining, waste disposal, ground water and other problems of a geologic nature are reviewed. Natural environmental hazards, such as volcanoes, earthquakes, subsidence, mass movements and floods are examined. Prerequisite: Phys 100. (Double listed in geology.)

EHT 312 (F)

4 hrs. cr.

Environmental Biology

(Writing Intensive)

Environmental factors and their interactions with living organisms. Emphasis on human ecology and wise natural resource utilization. Three lectures, one 2 hr. lab per week. Prerequisite: Bio 112 and 122, or permission. (Double listed in biology)

EHT 370 (Demand)

Environmental Health

Contemporary environmental health problems and public protection measures, including public health disease prevention, vector control, etc. Three lectures, one 2-hr. lab per week. Prerequisite: Bio 231 or permission. (Double listed in biology.)

EHT 372 (F, Odd)

4 hrs. cr.

Environmental Regulations and Program Administrations

Study of regulations which constitute the basis for management of environmental agencies and organization of environmental health agencies. Prerequisite: EHT 312 and 370 (Bio 312 and 370) or permission of instructor.

EHT 373 (S, Even)

2 hrs. cr.

Solid Waste Management

Introduction to the problems and solutions related to the generation, storage, collection and disposal of solid wastes. Management aspects of planning, organizing, designing and operating refuse collection and disposal systems also included. Prerequisite: EHT 312 and 370 (Bio 312 and 370) or permission of instructor.

EHT 375 (S, Even)

2 hrs. cr.

Vector Control

Identification and control of organisms which serve as reservoirs and vectors of diseases. Prerequisite: EHT 312 and 370 (Bio 312 and 370) or permission of instructor.

EHT 377 (S, Odd)

4 hrs. cr.

Community Sanitation

Introduction to concepts, principles and methods generally useful in performance of duties of city and county health department personnel. Prerequisite: EHT 312 and 370 (Bio 312 and 370) or permission of instructor.

EHT 385 (F, Even)

4 hrs. cr.

Food, Milk and Consumer Protection

Introduction to production, processing, transporting and retailing of food, milk, shellfish and other foods. Prerequisite: Bio 231, EHT 312 (Bio 312) and EHT 370 (Bio 370) or permission of instruc-

EHT 483 (S, Odd)

2 hrs. cr.

Environmental Assessment

The essential elements necessary for development of an environmental assessment document as specified by the National Environmental Protection Act. Prerequisite: Bio 290 and EHT 370 (Bio 370) or permission of instructor.

EHT 380 (S, Odd)

2 hrs. cr.

Epidemiology

Introduction to the concepts, principles and methods generally useful in the surveillance and investigation of communicable disease. Prerequisite: Bio 290, EHT 312 (Bio 312) and EHT 370 (Bio 370) or permission of instructor. (Double listed in

EHT 450 (F, S)

1-8 hrs. cr.

Internship in Environmental Health

Experience in actual observation and work at health facilities, health regulation agencies and/ or industrial plants where environmental health is a viable concern. Periodic meetings between the Missouri Southern coordinator, the cooperating institution and the student will be required. The student should not be employed in any job that will prevent full-time, maximum concentration on the academic internship. Prerequisite: Senior standing in environmental health or biology curricula.

EHT 498

1-3 hrs. cr.

Seminar in Environmental Health

For upper division environmental health and biology majors only. Meets regularly a minimum number of hours. Designed to give specialized instruction in some discipline of environmental health not covered in other courses. Prerequisites: Junior standing, 20 hrs. in environmental health and/or biology and a minimum GPA of 2.5 in environmental health and/or biology or permission of instructor.

1-3 hrs. cr.

Problems in Environmental Health

Individual work under the supervision of a staff member, with the credit and hours to be arranged. Problems may be undertaken in any field of environmental health, with adequate preparation and the consent of the supervising instructor, coordinator, department head and school dean. Prerequisites: Minimum GPA of 3.0 in 20 hrs. of environmental health and/or biology.

Law Enforcement (LE)

LE 100 (F, S)

Introduction to Law Enforcement

Municipal, county, state and federal police organizations. History and administration of justice. Responsibilities and opportunities in the field of law enforcement.

LE 110 (F)

Police Organization and Administration

Management operations, communications, budgeting, recruiting, training and public relations as they pertain to local and state law enforcement agencies.

LE 150 (S)

3 hrs. cr.

Interview and Report Writing

Techniques of interviewing and writing the report. Legal considerations for criminal interrogations. Use of basic report forms and records systems.

LE 180 (F, S, Summer)

Basic Police Academy

The basic training course for new law enforcement officers in Missouri, approved by P.O.S.T. (Police Officers Standards and Training) Office of the State Department of Public Safety. The broad range of topics includes firearms, reports, defensive tactics, investigation and Missouri traffic and criminal laws. Prerequisites: LE 100, LE 110 and LE 150 or permission. (Additional lab fee for course.)

LE 200 (F)

3 hrs. cr.

Criminal Investigation I

Fundamentals of criminal investigation techniques including crime scene procedures, burglary and death investigation. Includes collection, preservation, identification of evidence and overview of crime lab procedures.

LE 210 (F)

3 hrs. cr.

Criminal Procedures

Criminal law procedures from arrest through trial. search and seizure, laws of evidence, review of pertinent supreme court decisions and related topics. The order of criminal trial.

LE 225 (S)

3 hrs. cr.

Patrol Procedures

Covers numerous areas confronting today's law enforcement officer during tours of duty and the proper techniques and procedures used in handling each area.

LE 245 (S)

3 hrs. cr.

Law Enforcement Photography

Designed to instruct the law enforcement student in the fundamentals of photography, as it relates to documentation and investigation of crime scene evidence. No credit if CJAd 210 has been completed.

LE 250 (S)

3 hrs. cr.

Criminal Law

Criminal law purposes and functions, laws concerning arrest, search and seizure. Rights and duties of officers and citizens in relation to local, state and federal laws. The development, application and enforcement of laws.

Courses • Medical Technology, Military / 163

LE 290 (S) 3 hrs. o

Principles of personnel management as applied to law enforcement agencies: evaluation, promotion, discipline, training, employee welfare and

LE 298 (Demand)

problem-solving leadership.

1-8 hrs. cr.

Special Topics in Law Enforcement

Course content varies and is designed to meet current needs and interests in the rapidly changing field of law enforcement. Precise topics to be announced and prerequisites stipulated in course syllabus.

Medical Technology (MT)

MT 200 (F, S)

1 hr. c

Introduction to Medical Technology

A practical experience designed to introduce prospective medical technology students to the following areas of a hospital laboratory: hematology, coagulation, urinalysis, blood bank, microbiology, serology, radioimmunoassay and chemistry.

MT 401 (F) Clinical Chemistry 10 hrs. cr.

Analytical and theoretical aspects of the clinical biochemistry of body fluid constituents utilizing both manual and instrumental techniques, including automation and special procedures. Five hrs. lecture, 20 hrs. clinic/lab per week.

MT 402 (S)

1 hr. c

6 hrs. cr.

Clinical Microscopy

Principles and techniques of the physical, chemical and microscopic examination of urine and other excrete as related to disease processes. One hr. lecture, clinic by arrangement.

MT 403 (F)

Hematology

The cellular elements of blood and bone marrow; theory of cell production, release and survival; morphological characteristics of normal and abnormal cells; quantitative and qualitative abnormalities. Principles and techniques involved in the study of hemostasis, blood coagulation and hemorrhagic disorders. Three hrs. lecture, 12 hrs. clinic/lab per week.

MT 404 (S)

3 hrs. cr.

Serology-Immunology

The science of immunity including antibody development, principles of antigen-antibody interactions and techniques of serological testing for various disease states. Three hrs. lecture, 12 hrs. clinic/lab per week.

MT 405 (S)

7 hrs. cr.

Clinical Microbiology

Sterile technique, methods of handling and inoculating specimens containing pathogenic micro-organisms, isolation and identification of pathogenic micro-organisms, laboratory tests in chemotherapy, and diagnostic bacteriology, mycology and parasitology. Four hrs. lecture, 12 hrs. clinic/lab per week. MT 406 (S)

3 hrs. c

A study of the blood group systems and the immune response. Methods of crossmatching, antibody screening and phenotyping. Administrative safeguards and legal aspects of blood

Blood Bank-Immunohematology

trative safeguards and legal aspects of blood banking. Proper clinical utilization of blood components. One hr. lecture, 8 hrs. clinic/lab per week

week.

T 407 (S)

2 hrs. cr.

Special Topics in Medical Technology

Lecture and/or clinical practice in the areas of inservice education, management and supervision, research and development, and principles and techniques of the instructional process. Lecture and labs to be arranged.

Military Science (MS)

MS 111 (F)

2 hrs. c

Adventure Training

Basic rifle marksmanship, camping, mountaineering, rappelling, map reading and survival. An overview of Army ROTC and job opportunities throughout the Army. One hr. lecture, 2 hrs. lab per week. Participants incur no military obligation by taking this course. Can be taken in lieu of HPER 100 in some programs.

MS 112 (S) Survival Skills 2 hrs. cr.

Basic survival skills in various geographic regions and climates, as well as basic first aid in survival situations. An overview of the branches of the Army, as well as the Army Reserve and Army National Guard. One hr. lecture, 2 hrs. lab per week. Participants incur no military obligation by taking this course.

MS 201 (F)

2 hrs. cr.

Contemporary Military Subjects

An overview of areas of military interest in today's world and how these current events affect each of us. Basic military management techniques and leadership styles. A review of ROTC programs and their application to career goals both military and civilian. Two hrs. lecture, one hr. lab per week. Participants incur no military obligation by taking this course.

MS 202 (S)

2 hrs. cr.

Individual Military Skills

Comprehensive instruction on a variety of "soldier skills" which the student should know prior to enrolling in Advanced ROTC courses. Customs and traditions, land navigation, field training exercises, physical training programs and additional leadership experiences. One hr. lecture, 2 hrs. lab per week. Participants incur no military obligation by taking this course.

MS 298 (Summer)

2-8 hrs. cr

Seminar in Military Science (ROTC Basic

Camp)

An in-depth study of the military science courses normally taught on the college campus during the freshman and sophomore years, including tactics, marksmanship, communication, physical conditioning and practical leadership experience. The six-week course is taught at Fort Knox, Ky. with transportation and room and board plus a salary provided by the Army.

MS 301 (F)

3 hrs. cr.

Fundamentals and Dynamics of

Military Team I Leadership, its princi

Leadership, its principles, responsibilities and techniques. Functions of the leader, leadership (including management of military assets), introduction to leadership theory and practice and military laws. Includes a physical training program and weekend field problem. Three hrs. lecture per week. Prerequisite: Permission.

MS 302 (S)

3 hrs. cr.

Fundamentals and Dynamics of Military Team II

Branches of the Army, small unit tactics, communications, leadership theory and practice. Included is a physical training program and two weekend field problems. Three hrs. lecture per week. Prerequisite: Permission.

MS 400 (S)

3 hrs. cr.

(SEE HIST 400)
United States Military Experience 1775 to

A broad view of military history concerning the role of force on land, sea or air against foreign governments and domestic dissidents. Emphasizes military policy, organization and technology, relating to political, social and economic developments. Covers the major American wars and other activities of the armed forces but only in their larger aspects, selectively and for the purpose of illustrating the broad themes in the military experience. Three hrs. lecture per week.

MS 411 (F)

3 hrs. cr.

Leadership and Management I

Command and staff concept and evolution, organization for operations, the composition and mission of various military teams, broad aspects of military logistics, leadership theory and practice. Also included is a program of directed readings in military history, a physical training program and a weekend field problem. Three hrs. lecture per week. Prerequisite: Permission.

MS 412 (S)

3 hrs. cr.

Leadership and Management II

Military law, obligations and responsibilities of an officer, military personnel, logistics and administrative management, world change and military implications, leadership theory and practice. Also included are a physical training program and two weekend field problems. Three hrs. lecture per week. Prerequisite: Permission.

164 / Courses • Nursing

Independent Study in Military Justice

Individually directed readings, research, and practical experience for advanced students in Military Science. Topics to be covered may include: application of military history; battalion staff operations and planning; and research into current topics and credit must be approved by the Department Head and school dean. Prerequisite: Instructor permission.

Nursing-Associate Degree (Nurs)

Nurs 100 (F) **Introduction to Nursing Process** 6 hrs.cr.

An introduction to nursing, roles and competencies of the associate degree nurse and application of the nursing process with emphasis on health and uniqueness of individuals. Students are expected to demonstrate proficiency in the basic nursing skills. Licensed practical nurses admitted to the program complete the theory portion of the course. Following the demonstration of clinical proficiency in basic skills, LPNs will be exempt from part of the clinical lab experience. Clinical assignments which provide the opportunity to develop skill in the use of the nursing process will be selected. Four hrs lecture, 6 hrs. clinical lab including pre- and post-conferences.

Nurs 110 (S) **Nursing Process with the Developing Family** Application of the nursing process to the healthy childbearing family followed by complications of childbearing and common illnesses of childhood. Emphasis is on family and individual development from conception through adolescence. The student is expected to organize care of selected patients with emphasis on teaching parenting skills. Historical highlights and trends in maternal/child care are presented. Five hrs. lecture, 12 hrs. clinical lab including pre- and post-conferences. Prerequisites: Nurs 100 and Bio 306 with minimum grade of "C."

Nurs 130 (Summer) 4 hrs. cr. **Nursing Process in Psychiatric-Mental Health Nursing**

The promotion of mental health as well as application of the nursing process in the care of the client who demonstrates alterations in mental health in psychiatric mental health settings. Use of therapeutic communication and the nursepatient relationship are emphasized. Four hrs. lecture, 12 hrs. clinical lab including pre- and post-conference. Prerequisites: Nurs 110 and Chem 100 with minimum grade of "C."

Nurs 220 (F) **Nursing Process with Adults I** 9 hrs cr

Applies the nursing process to the adult client and family in achieving wellness. Development of the middle years is emphasized. In the clinical setting, opportunity is given to organize and provide care to more than one patient utilizing roles of the associate degree nurse. Communication including writing skills and health teaching are emphasized. Five hrs. lecture, 12 hrs. clinical lab including pre- and post-conferences. Prerequisite: Nurs 130 with minimum grade of "C."

Nurs 240 (S) **Nursing Process with Adults II** 9 hrs. cr.

A continuation of Nursing 220 with application of the nursing process to include critical care areas. The student assumes a greater role as a member of the health team by increased utilization of organizational and managerial skills. Developmental aspects of aging are emphasized. Professional issues, international trends as they influence health care are included. Four hrs. lecture, 15 hrs. clinical lab including pre- and post-conferences. Prerequisites: Nurs 220 and Bio 231 with minimum grade of "C.

Nurs 298 (Demand) Selected Topics in Nursing 1-3 hrs. cr.

3 hrs. cr.

Special topic or topics not normally included in another course. Prerequisites to be determined by the department of nursing and stipulated in a syllabus of the course.

Nursing-Baccalaureate Degree (Nurs)

Nurs 300 (F) **Concepts of Professional Nursing**

(Writing Intensive)

Provides opportunities for socialization of the learner in transition from a technical level to the professional level of nursing practice. Core content includes theories of nursing, the nursing process, change theory, communications, teaching/learning process and professional accountability. Professional roles of the nurse presented are teacher, planner of care, communicator and contributor to the discipline of nursing. Three hrs. lecture. Prerequisite: Admission to BSN program.

Nurs 315 (F) 3 hrs. cr. **Gerontic Nursing**

Provides comprehensive knowledge of the processes and problems of aging. Needs and functional capacities of the aged are addressed. Emphasis is placed on the formulation of interventions appropriate to the individual needs of the aged client and family. Issues relevant to the field of gerontic nursing are presented. Three hrs. lecture. Prerequisite: Admission to BSN program or RN status with permission of instructor.

Nurs 320 (F) **Nursing Ethics** 3 hrs. cr.

Investigates ethical issues which confront the professional throughout the client's life span. Ethics as a concept, traditional ethical approaches. constraints in nursing practice and selected ethical issues are presented. The role of the nurse will be emphasized using the case study approach. Three hrs. lecture. Prerequisite: Admission to BSN program or RN status with permission of instructor.

Nurs 330 (F) **Advanced Health Assessment**

Physical assessment is utilized as a tool in the data collection phase of the nursing process. Clinical experience is designed to refine the assessment skills with the assistance of an instructor. Nursing process is applied to the care of patients with a complexity of health problems in a variety of settings. Three hrs. lecture, 2 hrs. campus lab and 4 hrs. clinical lab. Prerequisites: Bio 308, Nurs 300 (or concurrent.)

Nurs 400 (S) 5 hrs. cr. **Community Health Nursing**

Concepts and methods for assessment of community strengths and health needs will be analyzed. Recommendation for the prevention, promotion and restoration of the health of individuals within the community, state and nation are presented. Interactive process is accentuated between health care providers and community residents to improve the overall health status of the person and aggregates. Three hrs. lecture, 6 hrs. clinical lab including conferences. Prerequisites: Nurs 300, Nurs 330.

Nurs 405 (S) 3 hrs. cr.

Nursing and Health Care

Examines various facets of health care delivery in the United States beginning with general systems theory. Historical threads that formed the fabric of today's health care delivery systems are woven throughout the course. Public and private providers who are responsible for health care and the influence of power groups on health care delivery are discussed. The effects of legislation on health care provision and on nursing practice are emphasized. Health related industries, the cost of health care and who pays, the role of consumers, and the barriers to care experienced by certain groups are also explored. An investigation of selected systems in other countries, projections for the future, and current trends in health care are included. Three hrs. lecture. Prerequisite: Admission to BSN program or RN status with permission of instructor.

Nurs 415 (S) **Nursing Research** (Writing Intensive) Provides guided investigation of research design, methodology, sampling, conclusions and clinical application of findings. Critical evaluation of research studies is emphasized. Legal and ethical issues relative to the research process are studied. Nursing research builds upon knowledge and skills acquired in the statistics course. Three hrs. lecture. Prerequisites: Psy 320, Nurs 300, Nurs 330, Nurs 400 (or concurrent.)

Courses • Paramedic, Radiologic Technology / 165

Nurs 430 (S)

5 hrs. cr.

Nursing Management and Leadership

Investigates the role of the nurse manager responsible for clinical practitioners in a bureaucratic environment. Concepts of competitive health care environment, value of services, access to care, quality and costs of services and professional level of nursing practice are incorporated. Application of concepts through clinical lab experiences promotes the knowledge and skills in understanding and manipulating the environments in which nurses practice. Three hrs lecture, 6 hrs. clinical lab. Prerequisites: Nurs 300, Nurs 330, Nurs 400 (or concurrent.)

Nurs 498 (Demand)

1-3 hrs. cr.

Seminar in Nursing

Special topic or topics not normally included in another course. Prerequisites: Upper division standing, additional requirements will be stipulated in the syllabus of the course.

Nurs 499 (Demand) Independent Study 1-3 hrs. cr.

Independent study course structured by adviser with approval of department head. Prerequisite: Advanced standing in major field. Registration in the course must be approved by adviser, department head and school dean. Minimum of 3.0 GPA required.

Paramedic Program (EMT-P)

EMT-P 295 (Demand)
EMT-P (Paramedic)

18 hrs. cr.

Classroom instruction supplemented by clinical observation and experience. The program meets over a two semester period. The classroom phase consists of three 3-hr. sessions per week. The clinical training is arranged through area hospitals and ALS ambulance services. Applicants must be at least 18 years of age, hold a high school diploma or equivalent and possess a current state ambulance license. A minimum of one year experience in the emergency medical field is preferred. Requirements for admission and for curriculum may change as the State Bureau of Emergency Medical Services may modify these for licensing. Special book and equipment fees are assessed for this course. (For additional information, contact the director of criminal justice programs or School of Technology.)

Radiologic Technology (Rad)

Rad 101

3 hrs. cr.

Introduction to Radiology

Basic procedures and equipment in the radiology department. Includes organization, function and supervision of a radiology department with a history of X-ray, ethical principles and legal aspect of technology and elementary radiation protection. Two hrs. lecture, 2 hrs. lab per week. Prerequisite or corequisite Bio 306.

Rad 111

3 hrs. cr.

Medical Terminology

The language of medicine, especially as related to radiology, through a comprehensive study of the more common medical roots, prefixes and suffixes. Relates medical roots to everyday English words. A survey of medical and surgical diseases is included. Three hrs. lecture per week.

Rad 121

3 hrs. cr.

Patient Care and Special Procedures

in Radiology

Routine and special care of the patient. Includes sterile techniques, preparation of contrast media. Special attention to visualization of digestive, urinary and reproductive organs. Three hrs. lecture per week.

Rad 132

3 hrs. cr.

Principles of Radiographic Exposure

Fundamental principles of technique and technique conversion with particular emphasis on the factors that directly and indirectly affect radiographic exposure. Emphasis on radiation protection and darkroom chemistry and techniques. Three hrs. lecture per week.

Rad 142

3 hrs. cr.

Radiographic Positioning I

Basic radiographic positioning including both standard and specialized position of the extremities and spine. Film critique and radiation protection are included. Two hrs. lecture, 3 hrs. lab and 12 hrs. clinic per week.

Rad 160

2 hrs. cr.

Film Critique

Develops student's ability to evaluate X-ray films as to technical quality and diagnostic interpretation. Includes an introduction to quality assurance. One hr. lecture, 2 hrs. lab per week.

Rad 170

3 hrs. cr.

Radiologic Physics

The physics of radiology. The physical principles of X-ray production. Including theory in electricity, rectification, circuitry and basic equipment maintenance. Three hrs. lecture per week.

Rad 180

4 hrs. cr.

Practicum in Radiology I

Intensified clinical training in the areas of urology, surgery, special procedure, fluoroscopy and general radiography. Course meets for 12 weeks summer session. Thirty-five hrs. clinic per week.

Rad 241

3 hrs. cr.

Radiographic Positioning II

In-depth study of routine and special views of the skull and facial bones. Film critique, radiation protection and skull anatomy review included. Two hrs. lecture, 3 hrs. lab, 20 hrs. clinic per week.

Rad 252

3 hrs. cr.

Radiographic Positioning III

Procedures and techniques for examination of various organs, including vascular studies and all special procedures. Course includes film critique, radiation protection and review of vascular anatomy. Three hrs. lecture, 20 hrs. clinic per week.

Rad 282

2 hrs. cr.

Practicum in Radiology II

Advanced clinical training. Includes an introduction to the responsibility of patient flow control. Twenty hrs. clinic per week.

Rad 290

4 hrs. cr.

Practicum in Radiology III

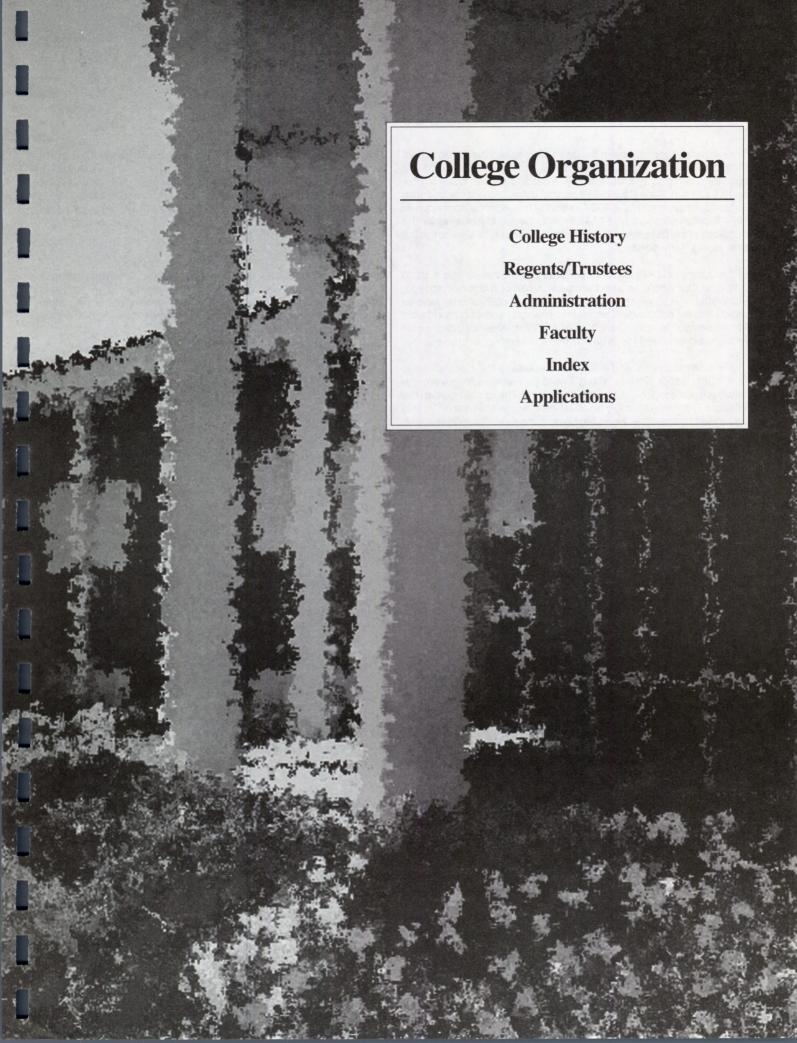
Professional clinical training in which the student controls patient flow. Special attention is given to final training in special procedures and surgery. Includes radiation therapy. Course meets 12 weeks during the summer session. Thirty-five hrs. clinic per week.

Rad 299

3 hrs. cr.

Advanced Radiology

Comprehensive review of the field of radiology including innovations, trends and anticipated advancements in the field. Three hrs. lecture per



College History

The citizens of Joplin, who in the late 1930s asked the public school district to offer college classes, could not have envisioned the sprawling campus and multidiscipline curriculum that today is Missouri Southern State College. From that initial request came Joplin Junior College, founded in 1937 as part of the Joplin school system. Nine faculty members and 114 students began classes under the auspices of the Extension Division of the University of Missouri in the new high school building.

In the spring of 1938, voters approved almost five-to-one a bond proposal that would assure the continuation of the junior college. During the next 25 years Joplin Junior College established a national reputation for outstanding academic strength, a strong foundation for what was to come. By the mid-1960s, area citizens again recognized the need for expanded educational opportunities.

In 1964, the citizens voted eight to one to create the Junior College District of Jasper County with a Board of Trustees to govern the newly named Jasper County Junior College. The following year, the Missouri General Assembly established a two-year senior college to be funded by the state when facilities of the junior college became available. The district would continue to fund the freshman and sophomore years.

The area again responded with enthusiastic and generous support to fund the building of a new campus on the site of the Mission Hills Farm to house the growing college. Administration and faculty, working with other college educators around the state, began developing the new curriculum. In August 1967, students gathered for the first time on the new campus of Missouri Southern State College.

The dual funding arrangement with the state continued until 1977 when on July 1 the State of Missouri officially took on the responsibility of funding the entire college. Today Missouri Southern State College remains a proud member of the state's higher education family while continuing to serve the region that is an integral part of its past.

Board of Regents

Frank S. Dunaway 1993 Douglas K. Crandall 1994 Cynthia Schwab 1995 Keith Adams 1996 Elvin Ummel 1997 Joe Newman 1998

Board of Trustees

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Memberships

American Association of State Colleges and Universities American Association of Colleges for Teacher Education

North Central Association

Sub-Committee on Institutions for Teacher Education Council for the Advancement and Support of Education American Assembly of Collegiate Schools of Business Association of Collegiate Schools and Business Programs

Accreditation

North Central Association of Colleges and Secondary Schools

National Council for the Accreditation of Teacher Education

Missouri State Board of Nursing

Missouri State Department of Education

American Dental Association

American Medical Association

National League for Nursing

Committee on Allied Health Education and Accreditation National Association for Accreditation of Clinical

Laboratory Sciences

Information concerning accreditation, including copies of pertinent documents, may be obtained from the Office of the Vice President for Academic Affairs.

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Administrative Staff

Autimistrative Staff			
President Julio S. Le Senior Vice President John W. Tier Vice President for Academic Affairs Robert C. Brow Vice President for Student Services			
Controller & Asst. Vice President for Business Affairs. Asst. Vice President for Information Services Asst. to the Vice President for Academic Affairs. Judy M. Bastian			
Dean, School of Arts and Sciences			
Head, Department of BiologyJohn P. MessickHead, Department of Communications.Richard W. MassaHead, Department of Computer Science.Jack L. OakesHead, Department of EducationJames V. SandrinHead, Department of EnglishStephen J. SpectorHead, Department of Fine ArtsPete HavelyHead, Department of MathematicsJ. Larry MartinHead, Department of Physical Education.J. Dirk NelsonHead, Department of Physical SciencesVernon D. BaiamonteHead, Department of Social SciencesDavid D. Tate			
Director of Criminal Justice. Director of Dental Hygiene. Director of Military Science. Director of Nursing Head Librarian. Jack G. Spurlin Sandra A. Scorse Major Irvin P. Langan Barbara J. Box Charles H. Kemp			
Director of Alumni Affairs. Kreta C. Gladden Director of Assessment & Institutional Research Director of Continuing Education, Conferences and Workshops. R. Jerry Williams Director of Public Information. Gwen E. Hunt Registrar Eugene C. Mouser Director of Missouri Southern Foundation. W. Sue Billingsly			
Director of Student Life & Assistant to Vice President for Student Services Douglas M. Carnahan College Nurse Julia L. Foster Director of Men's Athletics James L. Frazier Director of Career Planning and Placement Nancy D. Loome Director of Women's Athletics Sallie L. Beard			
Director of Admissions			
Bookstore Manager			

170 / Faculty

Faculty

(Date indicates first year of full-time MSSC service)

David L. Ackiss

Professor, English 1981 Honors Program Director Bachelor's (A.B.), Davidson College Master's (M.A.), College of William and Mary Doctorate (Ph.D.), Duke University Summer Studies, Oxford University, England

Franklyn W. Adams

Associate Professor, Biology 1988
Bachelor's (B.S.), University of Southern
Mississippi
Master's (M.A.), Montevallo University
Doctorate (Ph.D.), University of Southern
Mississippi

Laura L. Adkins

Instructor, Mathematics 1991 Bachelor's (B.S.E.), Missouri Southern State College Master's (M.S.), Pittsburg State University

Lawrence R. Albright, II

Professor, Chemistry 1969
Bachelor's (B.S.), Northwest Missouri
State University
Master's (M.S.), University of Nebraska
Doctorate (Ph.D.), University of Nebraska

Ann L. Allman

Instructor, Counseling 1988 Counselor Bachelor's (B.A.), University of Missouri Master's (M.Ed.), University of Missouri Doctoral Studies, University of Missouri

Grace E. Ayton

Assistant Professor, Nursing 1986 Bachelor's (B.S.N.), Columbia Union College Master's (M.N.), Wichita State University

Brian C. Babbitt

Professor, Psychology 1977
Bachelor's (B.A.), Western Washington
State College
Master's (M.A.), University of New Mexico
Doctorate (Ph.D.), University of New Mexico

Vernon D. Baiamonte

Professor, Chemistry 1967
Head, Department of Physical Sciences
Bachelor's (A.B.), Colorado State College
Master's (M.A.), Colorado State College
Doctorate (Ph.D.), Indiana University
Post Doctoral Fellow, University of
California, Los Alamos Scientific Lab

Scott L. Ballard

Instructor, Physical Education 1990 Women's Basketball Coach Bachelor's (B.S.), Southwest Missouri State University Master's (M.S.), Drury College

Michael E. Banks

Associate Professor, Education 1975 Bachelor's (B.S.), Oklahoma State University Master's (M.S.), New Mexico Highlands University

Doctorate (Ph.D.), University of Kansas

Francis L. Bartholet

Assistant Professor, CADD 1987 Bachelor's (B.S.), St. Cloud State University Master's (M.Ed.), University of Minnesota Doctoral Studies, University of Iowa

Judy M. Bastian

Instructor, Communications 1991
Assist. to the Vice President for
Academic Affairs
Bachelor's (B.A.), Muhlenberg College
Master's (M.A.T.), School for
International Training

Wiley A. Beals

Instructor, Radiology 1982

Associate's (A.S.), Missouri Southern State College Graduate, Burge School of Radiologic Technology Registered Radiologic Technologist American Registry of Radiologic

Sallie L. Beard

Technologists

Assistant Professor, Physical Education 1972 Women's Athletics Director Bachelor's (B.S.), Missouri Southern State College Master's (M.S.), Pittsburg State University

Randal L. Becker

Associate Professor, Education 1991 Bachelor's (B.S.), Illinois State University Master's (M.S.), Illinois State University Doctorate (Ed.D.), Loyola University

Robert S. Black

Instructor, Library 1988 Reference Librarian Bachelor's (B.A.), Millikin University Master's (M.L.S.), Indiana University

Holland C. Blades, Jr.

Professor, Business 1987
Bachelor's (B.A.), Millsaps College
Master's (M.B.A.), University of Southern
Mississippi
Doctorate (Ph.D.), University of Arkansas

Beverly Culwell Block

Associate Professor, Business 1984
Bachelor's (B.S.), Southern Nazarene
University
Master's (M.S.), University of Arkansas
Doctorate (Ed.D.), University of Arkansas

Harold W. Bodon

Professor, Communications 1971
Bachelor's (B.A.), University of Utah
Master's (M.S.), California State UniversityHayward
Doctorate (Ph.D.), Brigham Young
University

Barbara J. Box

Associate Professor, Nursing 1986
Director of Nursing
Bachelor's (B.S.N.), Carlow College
Master's (M.S.), University of Oklahoma
Doctorate (Ed.D.), Oklahoma State
University

Karen A. Bradshaw

Instructor, Business 1986
Bachelor's (B.S.B.A.), Pittsburg State
University
Master's (M.B.A.), Pittsburg State
University

Jim J. Bray

Professor, Art 1992 Head, Department of Art Bachelor's (B.F.A.), Phillips University Master's (M.F.A.), Tulsa University

Barry E. Brown

Associate Professor, Philosophy 1987 Bachelor's (B.A.), Kalamazoo College Master's (M.A.), Columbia University Master's (M.A.), University of Rochester Doctorate (Ph.D.), University of Rochester

James F. Brown

Assistant Professor, English 1984 Bachelor's (B.S.), University of Iowa Master's (M.A.), University of Iowa Master's (M.A.), University of Iowa Doctorate (Ph.D.), University of Iowa

Robert C. Brown

Professor, Business 1987
Vice President for Academic Affairs
Bachelor's (B.A.), Northwestern State
University of Louisiana
Master's (M.A.), Louisiana State University
Doctorate (Ph.D.), Louisiana State
University

Ward H. Bryant

Assistant Professor, Communications 1992 Bachelor's (B.S.J.), University of Kansas Master's (M.S.), University of Kansas

Valerie Carlisle

Assistant Professor, Student Center 1985 Coordinator of Student Activities Bachelor's (B.A.), West Virginia University Master's (M.Ed.), University of South Carolina

Sheryl J. Carlson

Instructor, CAMT 1992
Bachelor's (B.A.), Southwest Texas
State University
Master's (M.A.), Southwest Texas
State University

Douglas M. Carnahan

Associate Professor, Student Services 1978
Assistant to Vice President for Student
Services and Director of Student Life
Bachelor's (A.B.), Bowling Green State
University
Master's (M.Ed.), University of Georgia
Specialist (Ed.S.), Pittsburg State University
Doctoral Studies, Oklahoma State
University

Albert J. Carnine

Assistant Professor, Music 1977 Bachelor's (B.M.E.), Illinois Wesleyan University Master's (M.M.), Southern Methodist University

Doctorate (D.M.A.), University of Texas

William R. Carter, II

Assistant Professor, Communications 1992
Bachelor's (B.A.), Massachusetts
Institute of Technology
Master's (M.A.), Harvard University
Doctoral Studies, Harvard University

Patrick Cassens

Professor, Mathematics 1988
Bachelor's (B.S.), Saint Louis University
Master's (M.S.), Saint Louis University
Doctorate (Ph.D.), Saint Louis University
Post Doctoral Studies, Harvard University

Val A. Christensen

Assistant Professor, Art 1979 Director of Spiva Art Center Bachelor's (B.F.A.), University of Nebraska, Lincoln Master's (M.F.A.), Wichita State University

Charles (Bud) L. Clark

Instructor, Music 1989
Choral Director
Bachelor's (B.M.E.), Central Missouri State
University
Master's (M.A.), Central Missouri State
University

Robert L. Clark

Professor, Communications 1984
Bachelor's (B.A.), Brigham Young
University
Master's (M.A.), Brigham Young University

Master's (M.A.), Brigham Young University Doctorate (Ph.D.), University of Oregon

Samuel L. Claussen

Associate Professor, Theatre 1977
Bachelor's (B.S.), Missouri Southern
State College
Bachelor's (B.A.), Missouri Southern
State College
Master's (M.F.A.), University of Virginia

Mark K. Clinton

Assistant Professor, Music 1992 Artist in Residence Bachelor's (B.M.), Peabody Conservatory of Music Master's (M.M.), Peabody Conservatory

of Music Doctorate (D.M.A.), Rice University

Judith L. Conboy

Professor, Sociology 1969 Bachelor's (B.A.), Pittsburg State University Master's (M.S.), Pittsburg State University Specialist (Ed.S.), Pittsburg State University Doctorate (Ph.D.), Kansas State University

C. Martin Conklin

Instructor, Physical Education 1988 Head Athletic Trainer Bachelor's (B.S.E.), Missouri Southern State College Master's (M.A.), University of Tulsa

Bill Cooke

Assistant Professor, Physical Education 1988 Assistant Football Coach Bachelor's (B.A.), Fort Lewis College Master's (M.A.), Adams State College

Robert L. Corn

Instructor, Physical Education 1989
Head Basketball Coach
Bachelor's (B.S.E.), Missouri Southern
State College
Master's (M.A.), University of Alabama
at Birmingham

Jimmy C. Couch

Associate Professor, English 1970
Bachelor's (A.B.), Texas Tech University
Master's (M.A.), Texas Tech University
Doctorate (Ph.D.), University of South
Carolina

E. Scott Cragin

Instructor, Business 1989
Bachelor's (B.S.), Rose-Hullman Institute of Technology
Master's (M.M.), Northwestern University

M. Lisa Crawford

Instructor, Communications 1990
Bachelor's (B.S.), University of Missouri—
Columbia

Master's (M.S.), University of Missouri— Columbia

Graduate Studies, University of Missouri — Columbia

E. Carolyn Cunningham

Assistant Professor, Business 1978
Bachelor's (B.S.), Missouri Southern
State College
Master's (M.S.), Pittsburg State University

Charles N. Curtis

Assistant Professor, Mathematics 1992 Bachelor's (B.S.), University of Washington Master's (M.S.), University of Washington Doctoral Studies, University of Washington

C. Clayton Deem

Instructor, Admissions 1991 Admissions/Financial Aid Counselor Bachelor's (B.S.E.), Missouri Southern State College

Elliott A. Denniston

Professor, English 1974 Bachelor's (B.A.), Princeton University Master's (M.A.), University of Michigan Doctorate (Ph.D.), University of Michigan

Glenn D. Dolence

Professor, Student Services 1969 Vice President for Student Services Bachelor's (B.S.), Missouri Valley College Master's (M.S.), Pittsburg State University Doctorate (Ed.D.), University of Arkansas

Myrna L. Dolence

Assistant Professor, Learning Center 1973 Coordinator of Learning Center Bachelor's (B.S.), Pittsburg State University Master's (M.S.), Pittsburg State University

Earle F. Doman

Associate Professor, Counseling 1987 Director of Counseling Bachelor's (B.S.), Emporia State University Master's (M.S.), Kansas State University Doctorate (Ph.D.), Kansas State University

Mary Lou Dove

Assistant Professor, Library 1969 Periodicals Librarian Bachelor's (B.S.), University of Missouri Master's (M.A.), University of Missouri Master's (M.S.), Pittsburg State University

Janice Dursky

Associate Professor, Education 1984 Bachelor's (B.A.), University of Iowa Master's (M.A.), University of Iowa Doctorate (Ed.D.), Drake University

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Joy S. Dworkin

Assistant Professor, English 1991 Bachelor's (B.S.), Reed College Master's (M.S.), University of Michigan Master's (M.F.A.), University of Michigan Doctorate (Ph.D.), University of Michigan

J. Steve Earney

Assistant Professor, Computer Center 1981 Assistant Vice President for Information Services

Bachelor's (B.B.A.), University of Arkansas Master's (M.B.A.), University of Central Arkansas

Certified Data Processor (CDP)

Duane O. Eberhardt

Professor, Business 1986 Bachelor's (B.S.), San Diego State University

Master's (M.A.), University of Southern California

Doctorate (Ph.D.), University of Southern California

Doris T. Elgin

Associate Professor, Nursing 1971
Bachelor's (B.S.N.), University of
Tennessee
Master's (M.A.), Memphis State University
Master's (M.S.N.), Texas Woman's
University

Mary S. Elick

Assistant Professor, Mathematics 1974
Bachelor's (B.S.E.), Southwest Missouri
State University
Master's (M.S.), University of Arkansas
Graduate Studies, University of Arkansas

Christine B. Eller

Assistant Professor, Nursing 1981
Bachelor's (B.S.N.), University of
Connecticut
Master's (M.S.N.), University of North
Carolina

William C. Elliott

Professor, Music 1968
Bachelor's (B.M.E.), Pittsburg State
University
Master's (M.M.), Pittsburg State University
Doctoral Studies, University of
Northern Colorado

Kenneth G. Evans

Instructor, Physical Education 1989
Assistant Football Coach
Bachelor's (B.S.), Northeastern Oklahoma
State University
Master's (M.S.), University of Oklahoma

Jay E. Fields

Professor, Theatre 1987
Head, Department of Theatre
Bachelor's (B.A.), West Liberty State
College
Master's (M.A.), West Virginia University

Master's (M.A.), Central Michigan
University

Doctorate (Ph.D.), Kent State University Summer Studies, Oxford University, England

Carl A. Finke

Professor, Business 1970
Bachelor's (B.S.B.A.), University of
Arkansas
Law Degree (J.D.), University of Oklahoma
Certified Public Accountant (CPA)

Jon H. Fowler

Associate Professor, Art 1968
Bachelor's (B.A.), Southwest Missouri
State University
Master's (M.F.A.), University of Arkansas

James L. Frazier

Assistant Professor, Physical Education 1971 Director of Men's Athletics Bachelor's (A.B.), University of Wichita Master's (M.A.), Wichita State University

C. Elaine Freeman

Assistant Professor, Special Programs 1980 Bachelor's (A.B.), Pittsburg State University Master's (M.S.), Pittsburg State University Specialist (Ed.S.), Pittsburg State University Doctorate (Ph.D.), University of Tulsa

E. Sam Gibson

Associate Professor, Biology 1967 Bachelor's (B.S.), Pittsburg State University Master's (M.S.), Pittsburg State University Doctorate (Ph.D.), Kansas State University

James E. Gilbert

Associate Professor, Financial Aid 1974 Director of Student Financial Aid Bachelor's (A.B.), University of Missouri Master's (M.A.), Southwest Missouri State University Specialist (Ed.S.), Pittsburg State University

Kreta C. Gladden

Assistant Professor, Alumni 1974
Director of Alumni Affairs
Bachelor's (B.S.), Missouri Southern
State College
Master's (M.B.A.), Pittsburg State
University
Doctorate (Ed.D.), University of Arkansas

Eillen A. Godsey

Assistant Professor, Learning Center 1984
Learning Center Counselor
Bachelor's (B.A.), East Texas State
University
Master's (M.S.), East Texas State
University

Specialist (Ed.S.), Pittsburg State University Doctorate (Ed.D.), Oklahoma State

University

Larry W. Goode

Associate Professor, Business 1968 Bachelor's (B.S.), Pittsburg State University Master's (M.S.), Pittsburg State University

James M. Gray

Associate Professor, Business 1969
Dean, School of Business Administration
Bachelor's (B.S.B.A.), Dana College
Master's (M.B.A.), University of Arkansas
Certified Systems Professional (CSP)

George C. Greenlee

Assistant Professor, English 1970
Head Varsity Soccer Coach
Bachelor's (B.A.), Northeast Louisiana
State College
Master's (M.A.), Northeast Louisiana
State College
Doctoral Studies, North Texas State
University

Betsy Q. Griffin

Professor, Psychology 1978
Head, Department of Psychology
Bachelor's (B.A.), East Carolina University
Master's (M.A.), University of South
Carolina

Doctorate (Ph.D.), University of South Carolina

Conrad E. Gubera

Professor, Sociology 1967
Bachelor's (B.S.), Pittsburg State University
Master's (M.S.), Pittsburg State University
Doctorate (Ph.D.), Oklahoma State
University
Post Doctoral Studies, Columbia University

Post Doctoral Studies, Columbia University Summer Studies, Oxford University, England

Patricia A. Halverson

Instructor, Communications 1992
Chart Advisor
Bachelor's (B.A.), Missouri Southern
State College
Graduate Studies, Southwest Missouri
State University

Henry L. Harder

Professor, English 1970 Bachelor's (A.B.), Subiaco College Master's (M.A.), University of Arkansas Doctorate (Ph.D.), University of Maryland

Dennis R. Harmon

Assistant Professor, Mathematics 1989 Bachelor's (B.S.), University of Oklahoma Master's (M.A.), University of Oklahoma Doctorate (Ph.D.), University of Oklahoma

Wayne A. Harrell

Professor, Music 1971
Bachelor's (B.M.E.), Wichita State
University
Macter's (M.M.E.) Wichita State III

Master's (M.M.E.), Wichita State University Doctorate (Ed.D.), University of Northern Colorado

Robert A. Harris

Assistant Professor, Music 1971 Bachelor's (B.M.), Pittsburg State University

Master's (M.S.), Pittsburg State University Pupil of Rosina Lhevinne

Pete Havely

Associate Professor, Music 1979
Head, Department of Music & Band Director
Bachelor's (B.M.E.), Central Oklahoma State
University

Master's (M.M.E.), Central Oklahoma State University

Doctoral Studies, Michigan State University

Barbara M. Hernandez

Instructor, Physical Education 1990
Bachelor's (B.A.Ed.), Northwestern State
University

Master's (M.Ed.), Northwestern State University

Dennis L. Herr

Assistant Professor, Computer Science ence1985

Bachelor's (B.S.), Missouri Southern State College

Master's (M.B.A.), Pittsburg State University Certified Data Processor (CDP)

Garry J. Hess

Assistant Professor, Art 1971 Bachelor's (B.S.), Fort Hays State University

Master's (M.A.), Pittsburg State University Graduate Studies, Pittsburg State University, East Texas State University

Jean M. Hobbs

Instructor, Physical Education 1991
Wellness Director and Assistant
Athletic Trainer
Bachelor's (B.S.) Missouri Souther

Bachelor's (B.S.), Missouri Southern State College

Master's (M.S.), Baylor University

Tom L. Holman

Associate Professor, History 1962 Bachelor's (A.B.), Southwestern College Master's (M.A.), Pittsburg State University Doctorate (Ed.D.), Oklahoma State University

Delores A. Honey

Associate Professor, 1980
Director of Assessment and Institutional
Research

Bachelor's (B.S.), Southwest Missouri State University

Master's (M.Ed.), University of Missouri — Columbia

Specialist (Ed.S.), Pittsburg State University Doctorate (Ph.D.), University of Missouri — Columbia

Summer Studies, Oxford University, England

Richard D. Humphrey

Associate Professor, Admissions 1968 Director of Admissions Bachelor's (B.S.), Pittsburg State University Master's (M.S.), Pittsburg State University

Duane L. Hunt

Associate Professor, Theatre 1964
Bachelor's (B.S.), Southwest Missouri
State University
Master's (M.A.), University of Arkansas

Graduate Studies, University of Arkansas

Gwen E. Hunt

Instructor, Public Information 1976
Director of Public Information
Bachelor's (B.S.), Southwest Missouri
State University
Master's (M.A.) University of Arkansa

Master's (M.A.), University of Arkansas Graduate Studies, University of Colorado

Susan S. Huston

Instructor, Library 1989
Technical Services Librarian
Bachelor's (B.A.), Oberlin College
Master's (M.A.), Western Michigan
University
Master's (M.S.L.), Western Michigan
University
Specialist (S.A.), Western Michigan
University

James R. Jackson

Professor, Biology 1976
Bachelor's (B.S.), Colorado State University
Master's (M.A.), University of Northern
Colorado

Doctorate (Ph.D.), Rutgers State University Visiting Scholar, Wolfson College, Oxford University, England

Marilyn J. Jacobs

Assistant Professor, Nursing 1974 Bachelor's (B.S.N.), University of Nebraska Master's (M.S.N.), University of Oklahoma

Anne M. Jaros

Assistant Professor, Theatre 1989 Bachelor's (B.A.), University of Illinois Master's (M.F.A.), Northwestern University

Jasbir S. Jaswal

Professor, Business 1977 Bachelor's (B.A.), University of Rajputana, India

Master's (M.A.), University of Rajputana, India

Master's (M.A.), University of Texas, El Paso Doctorate (Ph.D.), University of Missouri

Bernard A. Johnson

Associate Professor, Business 1974
Bachelor's (B.S.B.A.), Missouri Southern
State College
Master's (M.B.A.), Central Missouri
State University

Jack D. Jolly

Assistant Professor, Mathematics 1968
Bachelor's (B.S.E.), University of Oklahoma
Master's (M.A.), University of Oklahoma
Graduate Studies, University of Texas,
University of Wisconsin, University of
Minnesota

Regine E. Jordan

Instructor, Sociology 1991
Bachelor's (B.A.), Missouri Southern
State College
Master's (M.S.), Pittsburg State University
Graduate Studies, Central Missouri
State University

Rosanne S. Joyner

Associate Professor, Education 1985
Director of Student Teaching
Bachelor's (B.S.), East Tennessee
State University
Master's (M.Ed.), Mississippi State
University
Doctorate (Ph.D.), University of Southern
Mississippi
Summer Studies, Oxford University, England

J. Merrell Junkins

Professor, Psychology 1963
Bachelor's (B.S.), Pittsburg State University
Master's (M.S.), Pittsburg State University
Doctorate (Ed.D.), Oklahoma State
University

Mushabbar Karimi

Instructor, CADD & CAM 1990 Bachelor's (B.S.), South Gujaret University Master's (M.S.), Northwestern University

Larry K. Karst

Associate Professor, Counseling 1968 Counselor Bachelor's (B.S.), Pittsburg State University Master's (M.S.), Emporia State University Specialist (Ed.S.), Pittsburg State University

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Nancy S. Karst

Assistant Professor, Dental Hygiene 1975 Bachelor's (B.S.), Pittsburg State University Master's (M.S.), Pittsburg State University

Harrison M. Kash

Assistant Professor, Chemistry 1958
Bachelor's (B.S.), Pittsburg State University
Master's (M.S.), Kansas State University
Graduate Studies, Hays State, Oregon State
University, Pittsburg State University,
Duke University

Bruce K. Kelley

Associate Professor, Computer Science 1983 Bachelor's (B.S.), Southwest Missouri State University

Bachelor's (B.S.), Missouri Western State College

Master's (M.A.), Southwest Missouri State University

Certified Data Processor (CDP)

Graduate Studies, University of Missouri — Kansas City, Central State University

M. Elizabeth Kemm

Assistant Professor, Computer Science 1992 Bachelor's (B.A.), Missouri Southern State College Bachelor's (B.S.), Missouri Southern State College Doctoral Studies, University of North Texas

Charles H. Kemp

Associate Professor, Library 1985 Head Librarian Bachelor's (B.A.), University of Oklahoma Master's (M.L.S.), University of Oklahoma Doctoral Studies, University of Washington

Retha L. Ketchum

Assistant Professor, Nursing 1970 Bachelor's (B.S.N.), Creighton University Master's (M.S.E.), Southwest Missouri State University

Brad A. Kleindl

Instructor, Business 1986
Bachelor's (B.S.B.A.), Southern Illinois
University
Master's (M.B.A.), Southern Illinois
University
Doctoral Studies, Oklahoma State

Patricia P. Kluthe

University

Assistant Professor, 1989
Assistant Director of Honors Program
Bachelor's (B.A.), Missouri Southern
State College
Master's (M.A.), University of Minnesota
Doctoral Studies, The University of Tulsa

John S. Knapp

Associate Professor, Physical Sci 1989 Bachelor's (A.B.), University of California Berkeley

Master's (M.S.), University of Washington Doctorate (Ph.D.), University of Washington

Janet G. Kumbier

Instructor, Communications 1991 Bachelor's (B.A.), Michigan State University Master's (M.A.), Michigan State University

William A. Kumbier

Assistant Professor, English 1989 Bachelor's (B.A.), Michigan State University Doctorate (Ph.D.), State University of New York

Virginia J. Laas

Assistant Professor, History 1988 Bachelor's (B.A.), Pittsburg State University Master's (M.A.), Pittsburg State University Doctoral Studies, University of Arkansas

Joseph P. Lambert

Professor, English 1970 Director of Writing Program Bachelor's (A.B.), Mississippi College Master's (M.A.), Mississippi College Doctorate (Ph.D.), Auburn University

Richard E. La Near

Professor, Business 1987
J.R. Kuhn Chair in Finance
Bachelor's (B.S.), Pittsburg State University
Master's (M.B.A.), Memphis State
University
Doctorate (Ph.D.), University of Mississippi

Jon R. Lantz

Instructor, Physical Education 1988
Head Football Coach
Bachelor's (B.S.), Panhandle State
University
Master's (M.Ed.), Central State University

Marvin L. Larson

Instructor, Business 1990
Bachelor's (B.S.), University of Missouri—
Rolla
Master's (M.A.), University of Missouri—
St. Louis

Michael A. Lawson

Assistant Professor, Biology 1991 Bachelor's (B.S.E.), Missouri Southern State College Master's (M.S.), Pittsburg State University

Lori R. Lebahn

Instructor, Student Services 1988
College Orientation and Student Activities
Bachelor's (B.S.E.), Missouri Southern
State College
Master's (M.S.), Pittsburg State University

Charles E. Leitle

Professor, Business 1970 Bachelor's (B.S.B.A.), University of Arkansas

Master's (M.B.A.), University of Arkansas Doctorate (Ph.D.), University of Arkansas

Julio S. Leon

Professor, Business 1969
President
Bachelor's (A.B.), Universidad Tecnica
(Chile)
Master's (M.B.A.), North Texas State
University
Doctorate (Ph.D.), University of Arkansas

Patsy K. Lipira

Assistant Professor, Physical Education 1981 Women's Softball Coach Bachelor's (B.S.E.), Northwest Missouri State University Master's (M.S.), Kansas State University

Kexi Liu

Instructor, Music 1991 Master's (M.M.), East Carolina University Doctoral Studies, University of North Carolina

William R. Livingston

Associate Professor, Mathematics 1968
Bachelor's (B.S.), Pittsburg State University
Master's (M.S.), University of Illinois
Graduate Studies, Southern Methodist
University, Clemson University,
University of Illinois, University of
Oklahoma, University of Arkansas

Nancy D. Loome

Instructor, Placement 1988
Director of Career Planning and Placement
Bachelor's (B.S.B.A.), Delta State
University
Master's (M.Ed.), Delta State University

Ray A. Malzahn

Professor, Chemistry 1980
Dean, School of Arts and Sciences
Bachelor's (A.B.), Gustavus Adolphus
College
Master's (M.S.), University of North Dakota

Master's (M.S.), University of North Dakota Doctorate (Ph.D.), University of Maryland Post Doctoral Studies, University of Arizona

Terry D. Marion

Associate Professor, Business 1976 Bachelor's (B.S.), Southwest Missouri State University

Master's (M.S.), Pittsburg State University Specialist (Ed.S.), Pittsburg State University Graduate Studies, Kansas State University, Purdue

Doctoral Studies, University of Arkansas Summer Studies, Oxford University, England

Robert P. Markman

Associate Professor, History 1967 Bachelor's (B.S.), Monmouth College Master's (M.A.), University of Oklahoma Doctorate (Ph.D.), University of Oklahoma

Ann M. Marlowe

Professor, English 1971
Bachelor's (B.A.), St. Francis College
Master's (M.A.), University of Dayton
Doctorate (Ph.D.), University of New Mexico
Post Doctoral Studies, Dartmouth College,
Yale University

J. Larry Martin

Professor, Mathematics 1965 Head, Department of Mathematics Bachelor's (B.S.), University of Tulsa Master's (M.S.), University of Tulsa Doctorate (Ed.D.), University of Georgia

Richard W. Massa

Professor, Communications 1972 Head, Department of Communications Bachelor's (B.J.), Univ. of Missouri — Columbia

Master's (M.A.), Univ. of Missouri — Columbia

Graduate Studies, University of Arkansas, University of Missouri

Lyle F. Mays

Associate Professor, Computer Science 1981 Bachelor's (B.S.), Missouri Southern State College

Master's (M.S.), University of Washington Doctoral Studies, University of Washington

David H. McConnell

Assistant Professor, Education 1991 Bachelor's (B.A.), Northern Michigan University

Master's (M.Div.), Asbury Theological Seminary

Doctorate (Ph.D.), Indiana University

Robert L. Meeks

Assistant Professor, Music 1986
Bachelor's (B.M.E.), Arkansas State
University

Master's (M.M.E.), Arkansas State University

Allen H. Merriam

Professor, Communications 1982 Bachelor's (B.A.), Drew University Master's (M.A.), Ohio University Doctorate (Ph.D.), Ohio University

Edward P. Merryman

Professor, Educ & Psych 1980
Dean, School of Education and Psychology
Bachelor's (A.B.), Washington University of
St. Louis

Bachelor's (B.S.), Washington University of St. Louis

Master's (M.Ed.), Washington University of St. Louis

Doctorate (Ph.D.), Ball State University

John P. Messick

Associate Professor, Biology 1984
Head, Department of Biology
Bachelor's (B.S.), Southwest Missouri
State University
Master's (M.S.), University of Idaho
Doctorate (Ph.D.), University of Idaho

Angie Miller

Instructor, Admissions 1992 Admissions/Financial Aid Counselor Bachelor's (B.S.), Missouri Southern State College

Mary Lou Miller

Instructor, Mathematics 1989
Bachelor's (B.S.E.), Oklahoma State
University
Master's (M.S.), University of Tulsa

Richard B. Miller

Associate Professor, Sociology 1985
Bachelor's (B.A.), Henderson State
University
Master's (M.A.), Memphis State University

Master's (M.A.), Memphis State University Doctorate (Ph.D.), Oklahoma State University

Robert J. Miller

Associate Professor, Business 1968
Bachelor's (B.S.), Central Missouri
State University
Master's (M.A.), Central Missouri State
University

Graduate Studies, University of Arkansas, Purdue

Jay Rieley Moorman

Assistant Professor, Communications 1991
Bachelor's (B.A.), Southern Illinois
University

Master's (M.A.), Southern Illinois University Doctorate (Ph.D.), Southern Illinois University

Henry G. Morgan

Associate Professor, English 1971 Bachelor's (A.B.), University of Southern Mississippi Master's (M.A.), University of Southern

Mississippi Doctorate (Ph.D.), University of Colorado

Eric R. Morris

Instructor, Communications 1992
Debate Coach
Bachelor's (B.S.), Southwest Missouri
State University
Master's (M.A.), Kansas State University

Melvyn W. Mosher

Professor, Chemistry 1974
Assistant Director of Regional Crime Lab
Bachelor's (B.A.), University of Washington
Master's (M.S.), University of Idaho
Doctorate (Ph.D.), University of Idaho
Post Doctoral Studies, University of Alberta,
Edmonton

Eugene C. Mouser

Associate Professor, Registrar 1970 Bachelor's (B.M.E.), Oklahoma State University Master's (M.S.), Oklahoma State University Doctorate (Ed.D.), Oklahoma State University

Gary R. Mulkey

Assistant Professor, Mathematics 1977
Bachelor's (B.S.), Missouri Southern
State College
Master's (M.S.), University of Arkansas
Doctorate (Ph.D.), University of Arkansas

Gwendolyn K. Murdock

Associate Professor, Psychology 1985 Bachelor's (B.A.), University of Colorado Master's (M.A.), University of Colorado Doctorate (Ph.D.), Georgia Institute of Technology

J. Dirk Nelson

Assistant Professor, Physical Education 1989 Head, Department of Physical Education Bachelor's (B.S.), Montana State University Master's (M.S.Ed.), University of Kansas Doctorate (Ph.D.), University of Kansas

David W. Noblett

Associate Professor, Art 1989
Bachelor's (B.F.A.), Minneapolis College
of Art and Design
Master's (M.F.A.), Indiana University

Charles E. Nodler

Assistant Professor, Library 1978
Archivist and Acquisition Librarian
Bachelor's (A.B.), Missouri Southern
State College
Master's (M.A.), University of Texas
at Arlington
Certificate of Archival Administration (CAA)

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Linda M. Hand Noel

Assistant Professor, Mathematics 1988 Bachelor's (B.S.), University of Missouri — Rolla

Master's (M.S.), Central Missouri State University

Doctorate (Éd.D.), Oklahoma State University

Jack L. Oakes

Assistant Professor, Computer Science 1983 Head, Department of Computer Science Bachelor's (B.S.), Missouri Southern State College

Master's (M.S.), University of Wisconsin Doctorate (Ph.D.), University of Missouri — Bolla

Max D. Oldham

Associate Professor, Physical Education 1973

Bachelor's (B.S.E.), Southwest Missouri State University

Master's (M.S.), Pittsburg State University Doctorate (Ed.D.), Oklahoma State University

Danny C. Overdeer

Assistant Professor, Education 1990 Bachelor's (B.S.), Oklahoma State University

Master's (M.S.), Oklahoma State University
Doctorate (Ed.D.), Oklahoma State
University

William H. Paapanen

Associate Professor, Business 1976
Bachelor's (A.B.), University of Oklahoma
Master's (M.Acct.), University of Oklahoma
Certified Public Accountant (CPA)

Roger D. Paige

Professor, Psychology 1976 Bachelor's (B.A.), University of Missouri Master's (M.A.), University of Missouri Doctorate (Ph.D.), University of Missouri

E. Gaye Pate

Instructor, Library 1985 Circulation Librarian Bachelor's (B.A.), Newcomb College, Tulane University Master's (M.A.), University of Iowa

Vernon L. Peterson

Professor, Communications 1979 Bachelor's (B.A.), University of Omaha Master's (M.A.), University of Iowa Doctorate (Ph.D.), University of Iowa

Russell A. Phillips

Professor, Physics 1970 Bachelor's (B.S.), Iowa State University Doctorate (Ph.D.), Iowa State University **Alcibiades Policarpo**

Assistant Professor, Communications 1992
Bachelor's (B.S.), Centro De Instruccion De
La Guardia — Peru

Master's (M.A.), St. Louis University Doctorate (Ph.D.), St. Louis University

Harry E. Preble

Professor, English 1968
Bachelor's (A.B.), University of Illinois
Master's (M.A.), University of Illinois
Doctorate (Ph.D.), University of Illinois

Vonnie R. Prentice

Professor, Biology 1972
Bachelor's (B.S.E.), Northeastern Oklahoma
State College
Master's (M.S.), University of Arkansas

Master's (M.S.), University of Arkansas Doctorate (Ph.D.), University of Arkansas

F. Cameron Pulliam

Associate Professor, Education 1990 Bachelor's (B.A.), Grand Canyon University Master's (M.S.), University of Missouri — Columbia

Doctorate (Ed.D.), University of Missouri — Columbia

Richard B. Rawlins

Assistant Professor, Business 1988
Bachelor's (B.S.), University of Missouri —
Columbia

Master's (M.S.), Oklahoma State University Doctoral Studies, University of Arkansas

G. Erin Ray

Assistant Professor, Education 1979 Bachelor's (B.S.), University of Northern Colorado

Master's (M.S.), Southwest Missouri State University

Summer Studies, Oxford University, England

Wendell C. Richards

Assistant Professor, Law Enforcement 1978 Bachelor's (B.S.), Central Missouri State University Master's (M.S.), Central Missouri State University

Stephen J. Roark

Associate Professor, Business 1992 Bachelor's (B.S.B.A.), University of Tulsa Master's (M.S. Acct.), University of Tulsa Doctorate (Ph.D.), Arizona State University Certified Public Accountant (CPA)

Michael T. Rodgers

Instructor, English 1987
Bachelor's (B.A.), Central State University,
Ohio
Master's (M.A.), Pittsburg State University

Master's (M.A.), Pittsburg State University Doctoral Studies, University of Tulsa

Mary G. Ross

Assistant Professor, Nursing 1979 Bachelor's (B.S.N.), Oklahoma Baptist University

Master's (M.S.N.), Duke University Graduate Studies, Texas Woman's University, University of Evansville, Southwest Missouri State University

Elizabeth J. Rozell

Assistant Professor, Business 1992 Bachelor's (B.S.), Southwest Missouri State University

Master's (M.B.A.), Southwest Missouri State University

Doctorate (Ph.D.), University of Mississippi

Lynne K. Rusley

Assistant Professor, Business 1984
Bachelor's (B.A.), University of Northern Iowa
Master's (M.A.), University of Northern Iowa
Graduate Studies, University of Northern
Iowa, Laverne College, Northern Illinois
University, Arkansas State University

Tom Rutledge

Instructor, Physical Education 1988 Assistant Football Coach, Cross Country Coach

Bachelor's (B.S.E.), Ouachita Baptist University

Master's (M.Ed.), Henderson State University

Sara L. Sale

Assistant Professor, History 1989 Bachelor's (B.A.), Missouri Southern State College

Master's (M.A.), Central Missouri State University

Doctorate (Ph.D.), Oklahoma State University

Arthur M. Saltzman

Professor, English 1981 Bachelor's (A.B.), University of Illinois Master's (A.M.), University of Illinois Doctorate (Ph.D.), University of Illinois

James V. Sandrin

Professor, Education 1969 Head, Department of Education Bachelor's (B.S.), Southern Illinois University

Master's (M.S.), Southern Illinois University Doctorate (Ph.D.), Southern Illinois University

Post Graduate Studies, West Germany

Daniel W. Scheible

Instructor, Physical Education 1989
Assistant Football Coach
Bachelor's (B.S.), Northwest Missouri
State University
Master's (M.S.), Northwest Missouri
State University

Jerry O. Schellenger

Assistant Professor, Psychology 1991 Bachelor's (B.S.), University of Houston Doctorate (Ph.D.), University of Houston

Gerald T. Schlink

Assistant Professor, Biology 1989
Bachelor's (B.A.), University of Missouri
Master's (M.S.), University of Missouri
Doctorate (Ph.D.), University of Missouri
Post Doctoral Studies, University of
Missouri

C. Robert Schwieger

Professor, Art 1990
Bachelor's (B.F.A.), Chadron State College
Master's (M.A.), University of Northern
Colorado
Master's (M.F.A.), University of Denver

Sandra A. Scorse

Assistant Professor, Dental Hygiene 1985 Director of Dental Hygiene Bachelor's (B.S.), Missouri Southern State College Doctorate (D.D.S.), University of Missouri— Kansas City

Donald L. Seneker

Associate Professor, Technology 1971 Interim Dean, School of Technology Bachelor's (B.S.), Central Missouri State University Master's (M.S.), Central Missouri State University

James H. Shaver

Professor, Business 1989
Bachelor's (B.S.), University of Arkansas –
Little Rock
Master's (M.B.A.), Louisiana Tech
University
Doctorate (D.B.A.), Louisiana Tech
University
Certified Public Accountant (CPA)

Evalina Shippee

Assistant Professor, Nursing 1987
Bachelor's (B.S.N.), University of Missouri
Master's (M.S.N.), University of Missouri
Gerontological Nurse Practitioner (GNP)

Sidney S. Shouse

Instructor, Business 1967 Controller & Asst. Vice President for Business Affairs Bachelor's (B.S.B.A.), Missouri Southern State College Master's (M.B.A.), Drury College

Dale W. Simpson

Associate Professor, English 1979
Bachelor's (B.A.), Harding College
Master's (M.A.), North Texas
State Uuniversity
Doctorate (Ph.D.), North Texas State
University

Thomas W. Simpson

Assistant Professor, Political Sci 1990 Bachelor's (B.A.), Chapman College Master's (M.A.), University of Northern Colorado

Doctoral Studies, University of Alabama

Anita B. Singleton

Assistant Professor, Nursing 1988 Bachelor's (B.S.N.), University of Kansas Master's (M.S.), University of Arizona Specialist (Ed.S.), Pittsburg State University

Marion E. Sloan

Associate Professor, Physics 1967
Bachelor's (B.A.), Pittsburg State University
Master's (M.S.), Pittsburg State University
Graduate Studies, Pittsburg State
University, University of Missouri—Rolla
University of Missouri—Columbia

Nancy L. Smith

Associate Professor, Education 1991
Bachelor's (B.S.), Missouri Southern
State College
Master's (M.S.), Southwest Missouri
State University
Doctorate (Ed.D.), University of Arkansas

Robert E. Smith

Professor, History 1972
Bachelor's (B.S.), Northwest Missouri
State University
Master's (M.A.), Oklahoma State University
Doctorate (Ph.D.), Oklahoma State
University

Stephen J. Spector

Professor, English 1992
Head, Department of English
Bachelor's (B.A.), Johns Hopkins University
Master's (M.A.), New York University
Doctorate (Ph.D.), University of
Pennsylvania

Vikki J. Spencer

Assistant Professor, Education 1989 Bachelor's (B.S.E.), University of Missouri Master's (M.S.), Pittsburg State University Doctorate (Ph.D.), University of Kansas

Rebecca Spracklen

Assistant Professor, English 1988
Bachelor's (B.A.), Missouri Southern
State College
Master's (M.A.), Mississippi State University
Doctoral Studies, University of Maryland

Jack G. Spurlin

Associate Professor, Law Enforcement 1975
Director of Criminal Justice
Bachelor's (B.S.), Northeast Missouri State
University
Master's (M.S.), Central Missouri State
University
Specialist (Ed.S.), Pittsburg State University
Doctorate (Ed.D.), Oklahoma State
University

Annetta E. St. Clair

Associate Professor, Political Sci 1964 Bachelor's (A.B.), Pittsburg State University Master's (M.A.), Pittsburg State University Master's (M.S.), Pittsburg State University

Chad D. Stebbins

Assistant Professor, Communications 1984
Bachelor's (B.S.), Missouri Southern
State College
Master's (M.A.), Central Missouri
State University
Graduate Studies, Pittsburg State
University
Doctoral Studies, Bowling Green State
University

Wayne E. Stebbins

Associate Professor, Biology 1969
Bachelor's (B.S.), Emporia State University
Master's (M.S.), Emporia State University
Graduate Studies, Texas A & M University,
Oregon State University

William R. Stevens

Assistant Professor, Business 1988
Bachelor's (B.S.E.), Missouri Southern
State College
Master's (M.Ed.), Central Missouri
State University
Doctorate (Ph.D.), University of Arkansas

Tia Marie Strait

Instructor, Dental Hygiene 1991 Associate's (A.S.), Missouri Southern State College Bachelor's (B.G.S.), Missouri Southern State College

Assistant Professor, Physics 1963

Arthur L. Strobel

Bachelor's (B.S.), Southeast Missouri State University Master's (M.S.), University of Arkansas Graduate Studies, Emporia State University, Oklahoma City University, Pittsburg State University, University of Missouri — Rolla

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William Z. Tannenbaum

Assistant Professor, History 1991 Bachelor's (B.A.), University of California — Davis

Master's (M.A.), University of California — Davis

Master's (M.A.), Stanford University Doctorate (Ph.D.), Stanford University Post Graduate Studies, University of Munich, Hebrew University, Tel Aviv University

D. David Tate

Professor, Sociology 1974
Head, Department of Social Science
Bachelor's (B.S.E.), University of Arkansas
Master's (M.A.), University of Houston
Doctorate (Ph.D.), Oklahoma State
University
Summer Studies, Oxford University, England

Robert R. Terry

Assistant Professor, Law Enforcement 1974 Bachelor's (B.S.), Northeast Missouri State University Master's (M.S.), Pittsburg State University Graduate Studies, Pittsburg State University

Paul Teverow

Associate Professor, History 1982
Bachelor's (B.A.), Case Western Reserve
University
Master's (M.A.), Ohio State University
Doctorate (Ph.D.), Ohio State University
Summer Studies, Oxford University, England

Charles C. Thelen

Associate Professor, Music 1973 Bachelor's (B.A.), Occidental College Master's (M.A.), University of Northern Colorado

Doctorate (Ed.D.), University of Northern Colorado

Tran Van Thuong

Assistant Professor, Mathematics 1987 Bachelor's (B.A.), Washburn University Master's (M.A.), University of Kansas Doctorate (Ph.D.), University of Utah

John W. Tiede

Professor, Business 1968
Senior Vice President
Bachelor's (B.S.), Southwest Missouri
State University
Master's (M.B.A.), University of Arkansas
Law Degree (J.D.), University of Missouri
Post Doctoral Studies, Harvard University

David L. Tillman

Associate Professor, Biology 1975
Bachelor's (B.S.), Brigham Young
University
Master's (M.S.), Brigham Young University

Debra Traywick

Instructor, Physical Education 1988
Women's Volleyball Coach
Bachelor's (B.S.E.), Southern Nazarene
University
Master's (M.Ed.), Central State University

L. Hartford Tunnell

Assistant Professor, Computer Science 1985 Bachelor's (B.A.), Texas A & M University Master's (M.Ed.), Southwest Texas State College Certified Data Processor (CDP) Certified Systems Professional (CSP) Graduate Studies, Incarnate Work College, St. Mary's University

Warren F. Turner

Assistant Professor, Physical Education 1976 Head Baseball Coach Bachelor's (B.S.E.), Pittsburg State University Master's (M.S.), Pittsburg State University

Juan L. Vazquez

Assistant Professor, Mathematics 1992 Bachelor's (B.A.), University of Puerto Rico Master's (M.Ed.), University of Illinois Doctorate (Ph.D.), University of Florida

Joe D. Vermillion

Assistant Professor, Counseling 1980 Counselor Bachelor's (B.S.), Missouri Southern State College Master's (M.A.), Pittsburg State University Specialist (Ed.S.), Pittsburg State University

T. A. Vernon

Assistant Professor, Business 1988 Bachelor's (B.S.), University of Tennessee Master's (M.B.A.), University of Mississippi Doctoral Studies, Louisiana Tech University

James T. Volskay

Professor, Psychology 1969
Bachelor's (B.S.E.), Southwest Missouri
State University
Master's (M.E.), University of Missouri
Doctorate (Ph.D.), University of Missouri

Doris A. Walters

Associate Professor, English 1983
Bachelor's (B.S.E.), Pittsburg State
University
Master's (M.A.), Pittsburg State University
Doctorate (Ph.D.), University of Arkansas

May X. Wang

Assistant Professor, Psychology 1990
Bachelor's (B.S.), Beijing University — China
Master's (M.A.), Michigan State University
Doctorate (Ph.D.), Michigan State
University

Rhonda L. White

Instructor, Dental Hygiene 1987
Bachelor's (B.S.), University of Missouri —
Kansas City

Philip R. Whittle

Professor, Chemistry 1970 Director of Regional Crime Laboratory Bachelor's (B.S.), University of Kentucky Doctorate (Ph.D.), Iowa State University Post Doctoral Fellow, University of Colorado

Robert C. Wiley

Professor, Education 1969
Bachelor's (B.S.), Trinity University
Master's (M.Ed.), Trinity University
Doctorate (Ed.D.), Oklahoma State
University

Post Doctoral Studies, Ball State University

Associate Professor, Law Enforcement 1976

Jimmie L. Williams

Bachelor's (B.S.), Missouri Southern State College Master's (M.S.), Central Missouri Specialist (Ed.S.), Pittsburg State University Doctorate (Ed.D.), Oklahoma State University

R. Jerry Williams

Assistant Professor, Continuing Education 1986 Director of Continuing Education Bachelor's (B.S.), University of Nebraska Master's (M.A.), Bowling Green State University Doctorate (Ed.D.), Oklahoma State University

R. Michael Wilson

Instructor, Physical Education 1989
Assistant Men's Basketball Coach
Bachelor's (B.S.), Northwest Missouri
State University
Master's (M.S.), Northwest Missouri
State University

C. Blake Wolf

Assistant Professor, Law Enforcement 1990 Bachelor's (B.S.), Missouri Southern State College Law Degree (J.D.), University of Arkansas

Edward W. Wuch

Associate Professor, Library 1969
Audio-Visual & Government Documents
Librarian
Bachelor's (B.S.), University of Missouri
Master's (M.Ed.), University of Missouri

Doctoral Studies, Arizona State University

Michael L. Yates

Associate Professor, Political Science 1980 Bachelor's (B.A.), Southern Illinois University Master's (M.Ed.), Southern Illinois

Master's (M.Ed.), Southern Illinois
University

Law Degree (J.D.), University of Missouri Summer Studies, Oxford University, England

Karolyn L. Yocum

Associate Professor, Communications 1986
Bachelor's (B.S.E.), Kansas State College
Master's (M.S.), Kansas State College
Specialist (Ed.S.), Central Missouri
State University
Doctorate (Ph.D.), Ohio State University

Donald R. Youst

Assistant Professor, Political Science 1971 Bachelor's (B.A.), Kansas State Teachers College — Emporia

Master's (M.S.), Kansas State Teachers College — Emporia

Doctorate (Ph.D.), University of Nebraska

Affiliated Faculty

Irvin P. Langan

Major R.O.T.C. Bachelor's (B.S.B.A.), Missouri Southern State College Master's (M.A.), Webster University Master's (M.S.Ed.), Northern Illinois University

Samuel H. Haskins

Master Sergeant R.O.T.C.

Paul M. Rivette

Captain R.O.T.C. Bachelor's (B.S.B.A.), University of Kentucky — Lexington

Richard L. Wright

Sergeant First Class R.O.T.C.

Thomas P. Grant

Dental Hygiene
Supervising Dentist, 1988
Bachelor's (B.S.), Pittsburg State University
Doctorate (D.D.S.), University of Missouri—
Kansas City

Leo Dougherty, MT (ASCP)

Program Director School of Medical Technology St. John's Regional Medical Center

John R. Esther, M.D.

Medical Director School of Medical Technology St. John's Regional Medical Center

James R. Krudwig

Director, Small Business Development Center Bachelor's (B.S.B.A.), Pittsburg State University Master's (M.B.A.), Central Missouri State University

Emeritus Faculty

Enid Blevins

Assistant Professor, English 1966 Bachelor's (B.S.), Southwest Missouri State University Master's (M.A.), Pittsburg State University

Cleetis Headlee

Professor, English 1946 Bachelor's (B.S.), University of Missouri Master's (M.A.), University of Missouri

Julie S. Hughes

Assistant Professor, History 1963 Bachelor's (B.S.), Pittsburg State University Master's (M.S.), Pittsburg State University

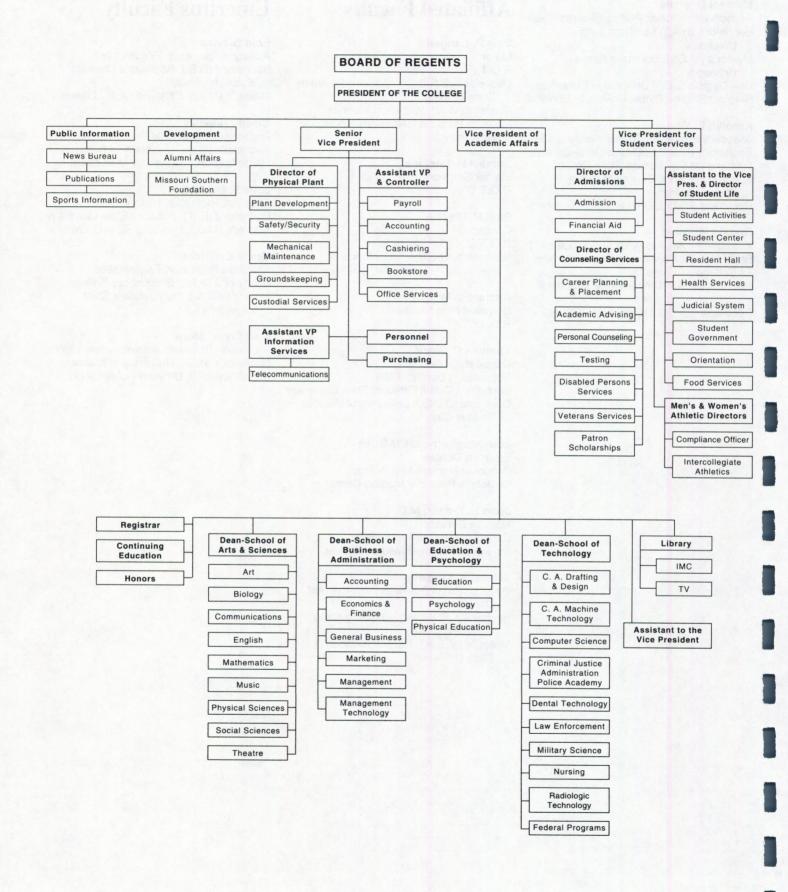
Grace C. Mitchell

Assistant Professor, English 1958 Bachelor's (A.B.), Greensboro College Master's (M.A.), Pennsylvania State University

Dorothy A. Stone

Professor, Business Administration 1939 Bachelor's (B.S.), University of Missouri Master's (M.A.), University of Missouri

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Equal Opportunity

Missouri Southern State College does not discriminate on the basis of handicap, race, color, religion, national origin, sex or age in the recruitment and admission of student, the recruitment and employment of faculty and staff and the operation of any of its programs and activities, as specified by Federal laws and regulations. The Director of Personnel is the designated coordinator for compliance with Section 504 of the Rehabilitation Act of 1973, Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972 and the Age Discrimination Act of 1967.

Handicap Access

Missouri Southern State College reschedules and relocates classes to ensure accessibility under Section 504 of the Rehabilitation Act of 1973. If any person has a class in an inaccessible location, please contact the Director of Counseling who, in conjunction with the office of the Vice President for Academic Affairs, will reschedule or relocate the class to provide accessibility. Information concerning accessible facilities is available from the Assistant to the President.

Family Educational Rights and Privacy

The College may disclose personally identifiable information from an educational record of a student without consent in following situations:

- The disclosure is directory information which includes name, address, telephone listing, date and place of birth, major, participation in activities and sports, dates of attendance, degrees and awards received and most recent previous institution attended.
- The disclosure is to school officials, including teachers, who have a legitimate education interest.
- The disclosure is to parents of a dependent student as defined in the Internal Revenue Code.
- 4. The disclosure is in connection with a health or safety emergency.
- 5. Other situations listed in 34CFR 99.31.

Policy Changes

The College reserves the right to make changes as required in course offerings, curricula, academic policies and other rules and regulations affecting students, to be effective whenever determined by the College. These changes will govern current and formerly enrolled students. Enrollment of all students is subject to these conditions.

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Honors Program Application

Miss Ms. Mrs. Name Mr.		
Last	First	Initial
Social Security No:		Telephone No: (Area Code)
Address:		
Address: Street	Town	State Zip
Highest ACT Composite Score:		Check below if one applies.
Test Date:		□ National Merit Finalist
Have you been admitted to MSSC	Yes □ No □	□ National Merit Semi-Finalist
If not, please apply at once.		□ National Merit Letter of Commendation
Have you applied for financial aid If not, please consider doing so.	? Yes □ No □	Please list awards, extracurricular activities, and interest below. Attach a separate sheet if necessary.
High School:G	PA:	longia due referebancia e gentre lon como campa no re
Year of Graduation: Class S	Standing:/	oNaniquae
Intended Major:		Chair a laun fearag Mostva agus caiste cairte
For already enrolled or transfer College or University Attended:		Parago Vernieri S.D.C. stap. Te lose en 1911. (1995. RE) Segue procedure en terres al reseau en 1911. (1995. RE) Relationer de service en 1911. (1995. RE)
Hours Completed:	GPA:	ALON Seal Cresport to the states of the seal of the seal
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Please list the names of the two pe	ople you plan to ask for	Land was a first transfer transfer to the parameter
references.		
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Name Title		
For Office Use Only		
Action taken:		
		Signature Date

Instructions

Requirements

For entering freshmen, an Enhanced ACT composite score of 28 or above or a GPA of at least 3.5 (on a 4-point scale) is required for eligibility to apply for admission to the Honors Program.

Students who have completed at least 15 but fewer than 30 hours of coursework with a least a 3.5 GPA either at MSSC or at another accredited college or university are eligible to apply for admission to the Honors Program.

Applications Procedures

Incoming Freshman

- *A completed APPLICATION FORM must be filed.
- *Please request that an official high school **TRANSCRIPT** be sent directly to the Honors Program.
- *Your ACT RESULTS must be on record, either separately, or on your transcript.
- *Arrange to have two **LETTERS OF RECOMMENDA- TION** sent directly to the Honors Program, one from your high school principal and one from one of your high school teachers. Additional letters are also invited.
- *You will need to arrange for an INTERVIEW.
- *You may be required to submit an **ESSAY** describing your academic goals and explaining your participation in the Honors Program.

Already Enrolled or Transfer Student

- *A completed **Application Form** must be filed.
- *Please request that an official college **TRANSCRIPT** be sent directly to the Honors Program.
- *Your ACT RESULTS must be on record, either separately or on your transcript.
- *Arrange to have two **LETTERS OF RECOMMENDA- TION** from your college instructors sent directly to the Honors Program. Additional letters are also invited.
- *You will need to arrange for an INTERVIEW.
- *You may be required to submit an **ESSAY** describing your academic goals and explaining your participation in the Honors Program.

For consideration for entrance into the program in the fall semester, all application materials should be received by April 1; for the spring semester all materials should be received by November 15.

Send all application materials to:

Missouri Southern State College

Honors Program Director

3950 E. Newman Rd.

Joplin, MO 64801-1595

Telephone: Toll free 1-800-492-4811 in Missouri, Arkansas (501), Kansas (316), and Oklahoma (918)

area codes only.

Telephone: In Joplin 1-417-625-9300, 625-9686 or 625-9748

GPA	Need	Other Scholarship	Code	Activities	
		Office Use Only			

Missouri Southern State College

Please complete application on both sides

3950 E. Newman Road Joplin, Missouri 64801-1595 417-625-9300

Scholarship Application

Note: By filing this form you will be considered for any one of 200 Patron Scholarships available through the Missouri Southern State College Scholarship program.

How to apply:

- 1. Must apply or have applied for admission.
- 2. Transfer students must have transcripts on file with Registrar's Office. (Transfer students may be eligible for Junior College Transfer Scholarships. Please contact the Financial Aid Office at Missouri Southern State College.).
- 3. Type or Print application.

Name				
First	Middle or Ir	Middle or Initial Last		
Social Security Number		Phone		
AddressNumber of Street	City	State	7:	<u> </u>
				County
Male Female	Married	Single _		
Date of High School Graduation		GED		Compared to
High School Attended		City/9	State	
Entering Freshman (0 hrs) Senior *Transfer				
Senior *Transfer	Conege i	ast attended	(new transfers only	<i>'</i>)
		Minor		
Check criteria which apply to you. 1. Career choice is mental. 2. Student Nurses' Associance (major). 4. Secretarial Science (major). 5. Non-traditional studenter (major). 6. Freeman Hospital employ. 7. Son or Daughter of Major. 8. Graduate - top half of (major). 9. Father or Grandfather (major). Member 10. Interested in technology. 11. Minority (optional):* Black (non-Hispanic; (major). American Indirection. Hispanic; (major).	al health. iation (SNA) r) ajor) t bloyee SSC alumni class Lions Club gy major spanic); spanic);	Ent New Colleg Application will not be completed and signed or College Registrar. High School GPA or (HS) 7th semester G (College) Last Semes Signature Date	tering Freshmen or the Transfer Students of the processed unless the pro	only— nis section is lor/principal system

^{*}Some scholarships may have criteria based on minority.

Are you re	ceiving any	of the following so	cholarships?		
Presiden	t's	Regents'	Performing Aid	Athletic	Honors
Deans'		Other	ns i2 modiud		
Are you co	urrently emp	oloyed? If ye	es, list place of employment.	13, 30,	
(If depend	ent) Father's	employer	Logi gam A. (1.5938)		
(If married) Spouse's e		o loga disa		
Note: Plea	se complete	e the following:			
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Organizati					
Volunteer					
All qualification	ed applicant	s will receive cons	ideration without regard to	non-merit factors: rac	e, sex, creed or
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			istance from the scholarship y academic progress.	program administere	d by Missouri Southern
I further u	inderstand t	hat application to	the scholarship program mu	st be turned in prior	to March 1.
2.	President's, more than by the Dire Scholarship scholarship All scholar All scholars	Regents', Jr. College one scholarship mector of Student Fire precipients may recor, not to exceed the ships are issued for thips are subject to co	ceive athletic and performing e student's college costs.	thip Program. Outstand by will accept unless s g awards which must e subject to review by the	ling students who receive special approval is made be coordinated with the
Date Sign	ed		Signature	T is a subspine	
Revised 0					

1-800-492-4811 Effective in MO, AR, KS-316, OK-918 area codes

Missouri Southern State College 3950 E. Newman Road Joplin, MO 64801-1595 Application for Admission

For Office Use Only
Ent By
Fee By

\$10.00 NON-REFUNDABLE application fee required for first time students only.

1. Baccalaureate (4-yr.) 2. Associate (2-yr.) 3. Certificate (1-yr.) 3. Transient 7. Audit 4. Undecided, or Post-Grad Studies 4. Credit-in-Escrow 8. 10. The college term in which you expect to enroll: Fall 19 Spring 19 Summer 19 11. a. High school date of graduation: 19 or date GED passed: 19 b. Name of high school (or location of where GED was taken) c. Are you a mid-term high school graduate? (Circle) Yes No 12. College attended - put most recent on the top line: Name Location Dates attended From To Degrees Earned 3. a. Are you currently on suspension from any college? (Circle) Yes No b. Have you ever been convicted of a felony? (Circle) Yes No If you answered yes on item 13a or 13b, please explain the situation on the back of this application. 4. Have you been immunized against: 5. What is your racial background? (Circle) American Indian or Alaskan Native Asian or Pacific Islander Caucasian/White Hispanic Negro Asian or Pacific Islander Caucasian/White Hispanic Negro Phone City State Zip dmission requirements are listed on the reverse side of this form. Missouri Southern State College does not discriminate on the basis of sex, rational origin, handicap, or age in its educational programs or activities. For further information concerning handicap accessibility, contact the Hoordinator. 7. I certify that the information provided is complete and correct to the best of my knowledge, and that I have read the admissio transcript requirements listed in the catalog. (Signature)	Social Security Number (Requ Name (Print)	· 1000 日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本	2-2739	FE 15 65 1 34	
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State					deficits: (Circle) Yes No
Street or Route		Buy	Teal		
State			City		Country
How long have you resided at the above address?					
Are you a U.S. Citizen: (Circle) Yes No If no, what visa do you hold?	How long have you resided at th	Zip	Code	Tele	phone Number ()
If no, country of birth		ac above address:	II less ti	nan i year, indicate	addresses for past year.
If no, country of birth	. Are you a U.S. Citizen: (Circle	e) Yes No If no, wha	t visa do you hold	?	
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Check here if you would like a subjustice in the	(Sign	nature)			(Date submitted)
Check here if you would like an application for housing.	Check here if you would li	ike an application for he	ousing.		(Date submitted)

Housing Information

On Campus residence requirements

All freshmen and sophomores are required to live in Missouri Southern State College Residence Halls to the extent space is available, unless they are married, live with their parents, live with a relative, or are excused by the Director of Student Life.

General Information

Missouri Southern houses over 560 students on campus. The two main residence halls are North Hall (202 men) and South Hall (106 women). Apartment-style units house an additional 256 students

The rooms on campus are furnished with twin size extra long beds, bed pads, study carrels, desks, chairs, lamps, wastebaskets, mini blinds, and night stands. Students are required to bring sheets, pillow, blankets, and all personal belongings. The apartment units are also furnished with sofa, chair, lamps, and coffee table.

All residence hall facilities are air-conditioned. Cable TV rooms, study lounges, recreational areas, IBM Personal Computers, vending machines, and laundry facilities are also included. The residence halls are staffed by two full-time professional Resident Directors who are assisted by a paraprofessional staff of 18 Staff Assistants.

Resident students are also entitled to food service. Twenty meals are served each week in the Student Center Cafeteria. Individual meals feature salad bar and unlimited servings, including entrees.

For additional information

Call:

Missouri Southern State College Housing Office (417) 625-9522

1-800-492-4811 toll free in MO, AR, KS-316, OK-918 area codes only

or write: Missouri Southern State College Housing Office

3950 E. Newman Rd. Joplin MO 64801-1595

Request for application

Complete and return the form below to receive an Contract for Housing

Name	(Last)	(First)	(Middle)	Date	
Address	(Street)		(City)	(State)	(Zip Code)
Telepho	ne				

Detach and return this form to:

Missouri Southern State College Housing Office

3950 E. Newman Road Joplin, MO 64801-1595

